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AUSTRALASIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

SYDNEY SESSION, 1898.

A Short Dichotomous Key to the hitherto known Species of Eucalyptus,

BY

J. G. LUEHMANN, F.L.S.

(Curator, National Herbarium, Melbourne).

Read before the Australasian Association for the Advancement of Science, January, 1898.

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A SHORT DICHOTOMOUS KEY TO THE HITHERTO KNOWN SPECIES OF EUCALYPTUS.

By J. G. LUEHMANN, F.L.S. (Curator, National Herbarium, Melbourne.)

(Read before the Australasian Association for the Advancement of Science, Tuesday, January 11, 1898.)

THE scheme herewith laid before the members of the Association, to classify the species of the genus Eucalyptus according to the fruits, is not, I may state at the outset, meant to supersede the excellent anther-system introduced by Bentham; the latter being in my opinion the most reliable which, with our present knowledge, can be devised. Frequently, however, when specimens are gathered, expanded flowers, or even well-advanced buds, are not available, while nearly every adult tree bears fruits as well as young flower-buds, and in most cases, though not in all, the species can by their aid and that of the leaves be determined with tolerable accuracy. The present arrangement should, therefore, be looked upon as devised to act as an auxiliary guide only, without any full descriptions, and is for this reason submitted in the form of a key. The primary character chosen is that of the fruit-valves, whether quite enclosed or whether the points protrude beyond the rim, or whether the top of the fruit is convex with every part raised above the rim; secondarily, the shape and size of the fruit are taken into consideration. De Candolle's classification, based on the shape of the operculum, is relied upon for further sectional divisions. While the majority of the species are without difficulty assigned to their respective divisions, there are others which form a transit and, in these cases doubts will arise, especially when we consider their remarkable variability. Even with complete material I have sometimes found it difficult to fix the limits of a species, although I devoted a great deal of time to the study to the genus while assisting the late Baron von Mueller in the elaboration of his Eucalyptographia, for which I worked up the very extensive material that had accumulated since the publication of the third volume of the Flora Australiensis. This mutability of form is well illustrated by the fact that a dozen kinds, raised from Australian seeds, have been described as new species in Europe and America by botanists of repute, although it seems improbable that they would receive seeds of a single species that had not already come under Baron von Mueller's notice.

sometimes even a minor character appears to be constant, and affords a pretty sure clue to the identification of a species, in other cases characters that in most plants would be considered of the greatest importance will be found unreliable in Eucalypts. it is also with the bark, which, though generally such a good guide, varies in some instances to a remarkable degree. This is well exemplified by Eucalyptus viminalis; this tree, which grows around the Melbourne herbarium building, shows here, in its sapling state, a smooth, whitish bark, until it attains a diameter of from 4 to 6 inches, then gradually the outer layers remain attached, at first near the base only, becoming rough and brown; as the plant gets older, these layers creep higher and higher up the stem, until, in aged trees, the whole of the trunk and also the larger branches are covered with a thick, rugged, dark brown bark. Within 10 miles inland from Melbourne, already the tree changes its character in this respect, inasmuch as only the lower part of the stem is covered with this rugged bark, while another 10 miles further towards the ranges, this species presents a smooth, white trunk, except, perhaps, just near the ground. Although the floral characters remain the same, yet, any one seeing only the two extreme forms would certainly consider them two distinct Euc. leucoxylon shows similar anomalies. As another instance of the difficulty of arriving at a correct limitation of the species of Eucalyptus, I may mention the fact that Bentham wrote that after he had finished his description of all the species of this genus for the Flora Australiensis, he considered it necessary to re-examine the whole of the collections, a thing which, for want of time, he did not do with any other group of plants. There is one feature which will, probably, throw more light upon the limits of species as well as their affinities, with which we are not yet sufficiently acquainted; this is the character of the seedlings. I venture to express a hope that in the near future one of our botanic gardens will undertake the investigation of this subject, which requires not only great knowledge and care, but also certain means that are only at the command of few people.

. In submitting this contribution to Australian botany, I trust that with all its shortcomings it will prove of some service in identifying the species of our most important genus of timber trees.

No.							No.
	Calyx four-toothed	•••	•••	•••	•••	•••	1
	Calyx truncate	•••	•••	•••	•••	•••	2
	(No. 5, E. tetraptera calyx.)	shows a	n appro	ach to a	four-to	othed	

Fruit fully ½ inch long, E. tetrodonta.
 Fruit under ½ inch long, E. odontocarpa.
 (Probably a variety of the above.)

	DICHOTOMOUS KEY TO THE EUCALYPTUS.	3
No.	and the state of t	No
2,	Stamens united in four bundles	3
	(This character is generally also discernible in the fruit by four depressions where the stamens had been inserted.)	
	Stamens free and inserted all around the inside of	
	the calyx	5
3.	Fruit more than 1 inch in diameter, convex above the rim of the calyx, E. erythrocorys.	
	Fruit less than 1 inch in diameter, the valves enclosed	4
4.	Leaves mostly opposite, ovate-lanceolate, mealy-white, E. tetragona.	
	Leaves scattered, lanceolate-falcate, dull green, E. eudesmioides.	
5.	Fruit quadrangular, about $1\frac{1}{2}$ inches long, reddish, E. tetraptera.	
	Fruit terete or irregularly angular	6
6.	Fruit-valves quite enclosed in the capsule	7
	Fruit-valves either quite exserted or the points reaching	
	the level of the rim	64
7.	Flowers mostly paniculated	8
	Flowers in simple umbels	35
	(Occasionally the inflorescence will appear paniculated in this section through the falling off of the leaves.)	
8.	Leaves mostly opposite	9.
m	Leaves scattered	13
9.	Leaves connate	10
	Leaves not connate	11
10.	Leaves about 6 inches long, 3 inches broad, E. perfoliata (allied to No. 31, E. corymbosa).	
	Leaves not exceeding 2 inches in length, E gamophylla.	
11		12
	Leaves lanceolate, at least 3 inches long	13
12.	Calyx bristly, E. setosa.	13 INRARY
	Calyx glabrous, E. aspera.	A STATE OF
13	Fruit ½ to ¾ inch in diameter, E. ferruginea.	UNIVERSITY OF UNITONIA
	Fruit not exceeding \(\frac{1}{3} \) inch in diameter, \(E. \) clavigera.	TINE TOWN
	(E. grandifolia and E. Papuana are varieties of this.)	OF CHUTOWIN
		-
14.	Leaves mostly peltate, E. peltata.	100
	Leaves attached to the stalks at the base	15
15.	Leaves of equal colour on both sides (See also Nos. 31 and 34.)	16
	Leaves paler beneath than above	24
16.	Fruit at least \(\frac{1}{3} \) inch in diameter, more or less urceolate	17
	Fruit rarely exceeding 1 inch	19

No.	T31 1 6 '	No,
17.	Flowers and fruits sessile, E. eximia.	• •
•	Flowers and fruits pedicellate	18
18.	Leaves lanceolate, operculum double, <i>E. maculata</i> (this includes as varieties <i>E. citriodora</i> and <i>E. melissiodora</i>).	
	Leaves ovate, operculum single, E. latifolia.	
19.	Leaves from orbicular to ovate, E. polyanthema.	
	(E. populifolia, which sometimes has the valves barely exserted, is readily distinguished by the dark, shining leaves, those of E. polyanthema being quite dull and greyish-green.)	
	Leaves from lanceolate-falcate to ovate-lanceolate	20
20.	Operculum conical, E. hemiphloia.	
	(This includes <i>E. albens</i> as a mealy-white variety, and probably, also, <i>E. Bowmani</i> , described from insufficient material.)	
	Operculum hemispherical, rarely shortly conical	21
21.	Leaves ovate-lanceolate	22
	Leaves lanceolate	23
22.	Fruit truncate-ovate, about 2 lines long, E. Behriana.	
	Fruit urceolate, 1 line long, E. brachyandra.	
23.	Leaf-veins very oblique, not numerous, anastomosing,	
-0.	E. largiflorens (= E. bicolor, Cunn.).	
	Leaf-veins very diverging, numerous, hardly anasto-	
	mosing, E. tesselaris.	•
94	Fruit with eight prominent longitudinal ridges, over 1	
aT.	inch long, E. ptychocarpa.	
	Fruit without prominent ridges	25
95	Branchlets with ferrugineous hairs, E. Torelliana.	20
40.	Branchlets glabrous	26
96	ma · i i · ·	20 27
<i>2</i> 0.		33
07	Fruit ovate or globose-truncate	33
21.	Fruit not exceeding 4 lines in length, E. trachyphloia.	90
00	Fruit over ½ inch long	28
28.	Operculum broader than the calyx, E. Watsoniana.	00
20	Operculum not broader than the calyx	29
29.	Fruit under 1 inch in diameter	30
••	Fruit exceeding 1 inch in diameter	32
30.	Peduncles stout, pedicels none, E. Abergiana.	
	Peduncles slender, flowers pedicellate	31
31.	Leaves lanceolate, E. corymbosa.	
	(Including as varieties E. terminalis, E. dichromophloia, and	
	E. pyrophora, as I find it impossible to draw a clear line of	
	demarcation; the specimens from the dry interior and from the north-west have the leaves frequently of equal	
	colour on both sides, and the fruits are occasionally rather	
	ovate-truncate than urceolate.)	
	Leaves very large, ovate, E. Foelscheana.	

Ņo. 32.]	Flowers white, rarely pink; seeds very large, black, not winged, E. calophylla.	
]	Flowers red; seeds brown, winged, E. ficifolia.	
	Fruit truncate globular, sessile, E. Howittiana.	
	Fruit truncate-ovate, pedicellate	
34. (Operculum depressed-hemispherical, E. Cloeziana. Operculum more or less conical, E. paniculata.	
	(The variety fasciculosa from the dry north-west of Victoria differs in having the leaves of equal colour on both sides and the bark of the trunk smooth.)	
	Fruit two-celled, E. phoenicea. Fruit with three or more cells	
36.]	Fruit nearly 2 inches long, E. miniata.	
	Fruit not exceeding 1 inch	
	Operculum projecting beyond the rim of the calyx	
	Operculum not broader than the calyx	
	Leaves somewhat paler beneath, <i>E. corynocalyx</i> . Leaves of equal colour on both sides, <i>E. urnigera</i> .	
	Leaves opposite	
	Leaves scattered	
	Leaves orbicular, <i>E. Kruseana.</i> Leaves lanceolate, <i>E. doratoxylon.</i>	
41.]	Leaves with several longitudinal veins almost parallel with the midrib	
	Leaves with the veins all more or less diverging from	
-	the midrib	
	Operculum conical, leaves rather small, E. stellulata. Operculum hemispherical, leaves large, E. coriacea (= E. pauciflora).	
43.	Leaves much paler beneath, E. diversicolor.	
	(Occasionally cultivated under the name of E. colossea. E. marginata has the valves sometimes enclosed, and is then distinguished from E. diversicolor by the conical operculum.)	
	Leaves of equal colour on both sides or nearly so	
44.	Pedicels elongated	
	Pedicels short or none	
45. (Operculum hemispherical, E. sepulcralis. Operculum conical	
46.	Leaf-veins very spreading, E. longifolia. Leaf-veins very oblique E. leucoxylon	
	Fertile seeds membranously winged, E. Todtiana.	
	Fortile seeds not winged	

No. 48.	Fruit much contracted at the orifice, nearly globular Fruits but slightly or not at all contracted	No. 49 50
49.	Fruits nearly 1 inch in diameter, E. buprestium. Fruits about \(\frac{1}{4} \) inch in diameter, E. piperita.	
	(Some specimens from near Port Jackson have almost urceo- late fruits, but seem gradually to pass into the other form.)	
50.	Fruits nearly 1 inch in diameter, E . Planchoniana. Fruits rarely exceeding $\frac{1}{2}$ inch	51
51.	Peduncles mostly recurved Peduncles erect	$\begin{array}{c} \bf 52 \\ \bf 53 \end{array}$
52 .	Operculum conical, E. decurva. Operculum hemispherical, E. Cooperiana.	
5 3.	Base of the calyx as well as of the operculum abruptly dilated into a furrowed ring, E. torquata. Base of calyx and operculum without these dilatations	54
54.	Peduncles short and thick, usually much flattened, E. incrassata.	
	(An extremely variable species; E. dumosa seems to pass into it by almost imperceptible degrees, although it can generally be distinguished by smaller flowers and fruits and less flattened peduncles. E. grossa, which is the same as E. pachypoda, appears to be also a variety with blunt, but rather long, operculum. See also No. 108, E. goniantha.)	
	Peduncles nearly terete, mostly slender	55
55.	Calyx angular	56 57
56.	Fruit about $\frac{1}{2}$ inch long, E . gracilis. Fruit about $\frac{1}{2}$ inch long, E . ochrophloia. (Perhaps a variety of the above).	
57 .	Calyx and operculum granular—rough Calyx and operculum smooth	58 60
58.	Large tree, with fibrous bark; leaves mostly very inequilateral, E. obliqua.	
	(Sometimes cultivated under the name of E. fissilis.)	
	Shrubs or small trees with smooth bark	59
59.	Leaves rather small, nearly straight, E. stricta.	
	(This is the typical E. stricta of Sieber, well described in Mueller's Eucalyptographia, with reniform anthers. Bentham, in Flora Austr. III, 217, apparently had a mixture of two species before him, describing the fruit of E. stricta, but the anthers of another species.	

No	Leaves large, falcate; umbels generally enclosed in large bracts while in bud, E. virgata. (Although I believe that Baron von Mueller was correct in including this also as a variety in E. stricta, yet I have kept it distinct as the appearance of the extreme forms is so very different. Both seem confined to the south-eastern parts of New South Wales. Bentham had also in this case a mixture before him, viz., a few specimens of the genuine E. virgata, but mostly those of a large tree allied to E. haemastoma, afterwards described by F. v. Mueller as E. Sieberiana. E. obtusiflora seems to have been described by De Candolle from imperfect material; an original leaf and a sketch of the specimen point, perhaps, to E. haemastoma, but a second leaf is quite different. The name had better be discarded.)	No.
60.	Leaves nearly straight, very shining, E. facunda.	
	(Includes E. loxophleba as a variety.)	
	Leaves falcate, inequilateral, dull green or hardly shining	61
61.	Fruits about $\frac{1}{2}$ inch in diameter, E . patens. Fruits not exceeding $\frac{1}{3}$ inch	62
6 2.	Fruit generally 5 or 6 celled, E. Bosistoana. Fruit mostly 4-celled	63
63.	Fruit truncate-ovate, E. odorata. Fruit truncate-globular, E. melliodora. (When in flower E. melliodora is readily distinguished by the outer stamens being sterile. In Mueller's Eucalyptographia the anthers are not correctly drawn; they open by terminal pores.)	
64.	Flowers generally paniculated	65
	Flowers mostly in simple umbels	74
65.	Leaves distinctly paler beneath, E. Raveretiana.	
	Leaves of equal colour on both sides	66
66.	Leaves opposite	67
	Leaves scattered	6 8
67.	Fruit truncate-ovate, about 4 lines long (a box-tree) E. pruinosa.	
	Fruit truncate-globular, 2 or 3 lines long (an ironbark tree), E. melanophloia.	
68.	Leaves ovate, or orbicular	69
	Leaves lanceolate	70
69.	Calyx about 3 lines in diameter, E. oligantha. Calyx under 2 lines in diameter, E. populifolia.	
70.	Operculum about 3 lines long, E. siderophloia.	-
	Operculum not exceeding 2 lines	71
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No. 71.	Fruit-valves much exserted, E. microtheca.		N
	(As pointed out already by Baron von Mueller, in It tographia, Turczaninow's E. brachypoda, to Bentham referred this, must be some other spably an aberrant form of a known plant.)	which :	Mr.
	Fruit-valves level with, or hardly projection the rim	ng bey	ond 7
72.	Fruit 3 to 4 lines in diameter, E. drepanoph	ylla.	
	(Includes as a variety E. leptophleba.)		
	Fruit not exceeding 2 lines	•••	7
73.	Leaves linear-lanceolate, E. crebra. Leaves ovate-lanceolate, lemon-scented, E. S	taige r i	ana
74.	Fruits 2 inches in diameter Fruits not exceeding 1 inch	•••	7
75.	Leaves opposite, E. macrocarpa. Leaves scattered, E. pyriformis.		
76.	Leaves paler beneath	•••	7
	Leaves of equal colour on both sides	•••	8
77.	Operculum broader than the calyx, E. robus Operculum not exceeding the calyx	ta.	7
78.	Calyx angular, E. botryoides. Calyx terete	•••	7
79.	Fruit $\frac{1}{2}$ inch or more in diameter Fruit under $\frac{1}{2}$ inch in diameter	•••	8
80.	Fruit-valves very short, hardly exserted, E. r. Fruit-valves long, much exserted, E. pellita.		ata.
	(Perhaps a variety of E. resinifera.)		
81.	Operculum longer than the calyx tube, E.	resini	
20	Operculum shorter than the calyx tube		8
04.	Leaves much paler beneath, the lateral veins and very spreading	mumer	8
	Leaves slightly paler beneath, the lateral	veins	
	very close and moderately spreading	•••	8
83.	Pedicels very short, or none, E. saligna. Pedicels elongated, E. microcorys.		
84.	Fruit broadest at the orifice; fertile seeds m	uch la	ger
	than the sterile ones	•••	84
	Fruit contracted at the orifice; fertile seeds	not m	
0.4	larger than the sterile ones	•••	8
84A	Operculum hemispherical; fruits small, E. p. Operculum bluntly conical. E. punctata.	roping	ua.

(including as a variety E. annulata.)

Fruit-valves short

100

No.		•			No.
100.	Leaves lanceolate, E. occidentalis.				
	(including E. macrandra and E. sp.	athulai	α as vari	eties.)	
	Leaves ovate, E. platypus.				
	(Baron von Mueller adopted in his Eucal ninow's name of <i>E. obcordata</i> , which me quite misleading and has no claim	appella	tion seer	rcza- ns to	
101.	Fruit from $\frac{1}{2}$ to 1 inch in diameter	•••	•••	•••	102
	Fruit mostly under $\frac{1}{2}$ inch	•••			105
102.	Top of fruit nearly flat	•••		•••	103
	Top of fruit convex		•••		104
103.	Leaves shining, E. megacarpa.				
	Leaves dull, very coriaceous, E. cos	monh	ılla.		
104.	Calyx terete, E. Oldfieldi.	1	,		
	(E. Drummondi seems a variety of this its parts.)	, being	smaller i	in all	
	Calyx angular, E. pachyphylla.				
105.	Leaves ovate, but acute, rarely o	vate-la	anceolat	e, <i>E</i> .	
	alba.			•	
	(E. platyphylla I cannot distinguish f variety.)	rom t	his, even	as a	
	Leaves lanceolate, rarely linear	•••	•••	•••	106
106.	Calyx and operculum strongly ribb	ed	•••		107
	Calyx and operculum not ribbed	•••	•••	•••	109
107.	Operculum quite hemispherical, E.	corru			
	Operculum elongated		• • • • • • • • • • • • • • • • • • • •	•••	108
108.	Operculum obtuse, E. goniantha.				
	Operculum pointed, E. falcata.				
109.	Calyx angular, pedicels flattened, I	E. goni	iocalyx.		
	Calyx and pedicels terete				110
110.	Fruit-valves ending in fine points				111
	Fruit-valves short, often deltoid	•••	•••		114
111.	Capsule raised above the rim	•••	•••	•••	112
	Capsule inserted below the rim	•••	•••		113
112.	Operculum conical, flowers closely		E. deci	piens	
	Operculum hemispherical, E. pallic				
113.					
	Leaves shining on both sides, E. so	lmon	onhloia.		
114.	Capsule inserted below the rim of	the c	alvx or	on a	
	level with it				115
	Capsule raised above the rim				131
115	Leaves linear, E. angustissima.	•••	•••	•••	
110.					
	(See also No. 130 E. amygdalina.)				
	Leaves lanceolate	•••	•••	•••	116
116.	Fruit urceolate, E. Baileyana.				
	Tweet mostly anata trumpacta marrow	*****	lata		. 117



DICHOTOMOUS KEY TO THE EUCALYPTUS.	11
No. 117. Pedicels very slender, at least three times as long as the calyx, E. leptopoda.	No.
Pedicels short	118
118. Operculum conical or acuminate, longer than the calyx Operculum hemispherical, mostly blunt, usually shorter	119
than the calyx	120
119. Flowers shortly pedicellate, E. redunca. Flowers sessile, E. concolor.	
120. Leaf-veins fine, numerous, very divergent	121
Leaf-veins not numerous, very oblique	122
121. Stamens of expanded flowers, straight, E. cneorifolia.	
Stamens of expanded flowers bent inwards about the middle, E. uncinata.	,
(E. micranthera is a variety of this.)	
122. Peduncles conspicuously flattened near the top, E. salubris.	
Peduncles nearly or quite terete	123
123. Leaves under 3 inches long	124
Leaves mostly over 3 inches long	125
124. Fruit almost flat on top, E. coccifera.	
Capsule somewhat sunk below the narrow rim, E. Gunnii (typical.)	
125. Fruit topshaped, leaves somewhat undulate, E. Gunnii, var.	
(I doubt whether Baron Von Mueller was correct in including this tree in <i>E. Gunnii</i> as a variety in his Eucalyptographia, where the main figure represents it. Bentham's description of <i>E. Stuartiana</i> refers partly to this. Perhaps it will be necessary to distinguish it as a separate species, and the name of <i>E. undulata</i> would not be inappropriate.)	
Fruit ovate or globose, truncate	126
126. Rim of fruit narrow, the valves inserted somewhat	
below it	127
Rim of fruit rather broad and flat	128
127. Flowers generally 3 in an umbel, E. Bauerleni. (The real affinity is with E. viminalis.)	
Flowers more than 3 in an umbel, <i>E. eugenioides</i> . (The real affinity is with <i>E. piperita</i> .)	
128. Leaves very pale, bark of stem hard and rugged, E. Sieberiana.	
Leaves green, bark of stem smooth or fibrous	129
129. Fruit ovate-truncate, top of fruit reddish, E. haemastoma.	
Fruite globose, truncate or shortly ovate	130
130. Leaves rather small, their oildots large and not very numerous; stem-bark fibrous, E. amygdalina.	
(E. dives is an aberrant form of this. There is a variety in Tasmania with linear leaves.)	

No.		No
	Leaves large, their oildots very fine and numerous;	
	stem-bark fibrous only near the base, E. regnans.	
	(Probably correctly included in <i>E. amygdalina</i> as a variety by Bentham and Mueller.)	
131.	Leaves small, thick, hardly inequilateral, E. santa- lifolia.	
	(Includes E. pachyloma).	
	Leaves mostly large, inequilateral	132
132.	Stems of young plants and offshoots quite quadrangular, with opposite ovate bluish-white leaves, E. Maideni.	
	(I find the above the most striking character in this remarkable species. The typical specimens have rather numerous flowers in an umbel, clavate and smooth in bud, with hemispherical but pointed operculum, and a rather long flattened peduncle. But there are forms, especially specimens collected in Gippsland by Mr. A. W. Howitt, that show an unmistakable approach to E. globulus, which in its ordinary form has such a different appearance. In other respects there is an evident affinity with E. goniocalyx. All three species have in their young state quadrangular stems and bluish leaves; the adult leaves are also somewhat similar in shape and texture. In my opinion, there are weighty reasons against the assumption that we have here a case of hybridisation, but must rather ascribe it to evolution.)	
	Stems of young plants nearly terete	1 3 3
133.	Veins of leaves very oblique	134
	Veins of leaves very diverging	136
134.	Flowers and fruits sessile, E. capitellata.	
	Flowers and fruits on short pedicels	135
135	Operculum conical, E. macrorhyncha.	100
100.	Operculum hemispherical, E. Muelleri.	
196		
130.	Flowers mostly three in an umbel, E. viminalis.	108
	Flowers more than three in an umbel	137
137.		
	bluntly conical	138
	Operculum conical or acuminate	139
138.	Leaves green, alternate, E. Stuartiana.	
	(Distinguished from E. viminalis when the latter has more than three flowers in an umbel by the fibrous bark and roundish seedling leaves, E. viminalis having either a smooth or a rugged but never fibrous bark and lanceolate seedling leaves.)	
	Leaves ashy-grey, sometimes opposite, E. dealbata.	
139.	Operculum mostly ending in a beak, E. rostrata.	
	(Some varieties have a blunt operculum and form a connecting link between this and E. tereticornis. E. exserta is a variety.)	
	Operculum conical, not beaked	140

140. Bark smooth; fruit almost globose through the broad ascending rim, E. tereticornis. Bark rough; rim of fruit only slightly ascending,

E. rudis.

E. orbifolia and E. patellaris, enumerated in the "Flora Australiensis," I have omitted, as they have in my opinion been described from too imperfect material to make their recognition at all certain; also E. Lansdowniana, F. v. Mueller and J. E. Brown, as I have neither a specimen nor the description, and as Professor Tate, who has seen the plant, informs me that he does not consider it a tenable species. Nor could I take cognisance of supposed new species described in recent years from cultivated plants in Europe and America, as it seems inconceivable that seeds of a number of new species should have been sent away while the trees remained unknown to Australian botanists.

INDEX.

Eucalyptus-	No.	Eucalyptus	No.
Abergiana, F. v. Mueller	30	coriacea, Cunn	42
acmenoides, Schauer	85	cornuta, Labill.	99
alba, Reinw	105	corrugata, Luehm	107
albens, Miq	20	corymbosa, Smith	31
alpina, Lindl	95	corynocalyx, F. v. M	38
amygdalina, Labill	130	cosmophylla, F. v. M	103
angustissima, F. v. M	115	crebra, F. v. M	73
annulata, Benth	99	dealbata, Cunn.	138
aspera, F. v. M.	12	decipiens, Endl.	112
Baileyana, F. v. M.	116	decurva, F. v. M.	52
Bauerleni, F. v. M	127	dichromophloia, F. v. M	31
Behriana, F. v. M.	22	diversicolor, F. v. M	43
bicolor, Cunn.	23	dives, Schauer	130
Bosistoana, F. v. M.	62	doratoxylon, F. v. M	40
botryoides, Smith	78	drepanophylla, F. v. M	72
Bowmani, F. v. M.	20	Drummondi, Benth	104
brachyandra, F. v. M	22	dumosa Cunn.	54
brachypoda, Turez	$\overline{71}$	erythrocorys, F. v. M	3
buprestium, F. v. M.	49	erythronema, Turcz.	92
caesia, Benth.	92	eudesmioides, F. v. M.	4
calophylla, R. Br.	32	eugenioides, Sieber	127
capitellata, Smith	134	eximia, Schauer	17
cinerea, F. v. M.	90	exserta, F. v. M.	139
citriodora, Hook	18	falcata, Turcz.	108
clavigera, Cunn	13	ferruginea, Schauer	13
Cloeziana, F. v. M	34	ficifolia, F. v. M.	32
cneorifolia, D.C.	121	fissilis, F. v. M.	58
coccifera, Hook. f.	124	fœcunda, Schauer	60
colossea, F. v. M	43	Foelscheana, F. v. M	31
concolor, Schauer	119		10
	92	gamophylla, F. v. M	95
conoidea, Benth.	52 52	globulus, Labill	93
Cooperiana, F. v. M	89	gomphocephala, D. C	108
cordata, Labill	00	goniantha, Turcz	100

INDEX—continued.

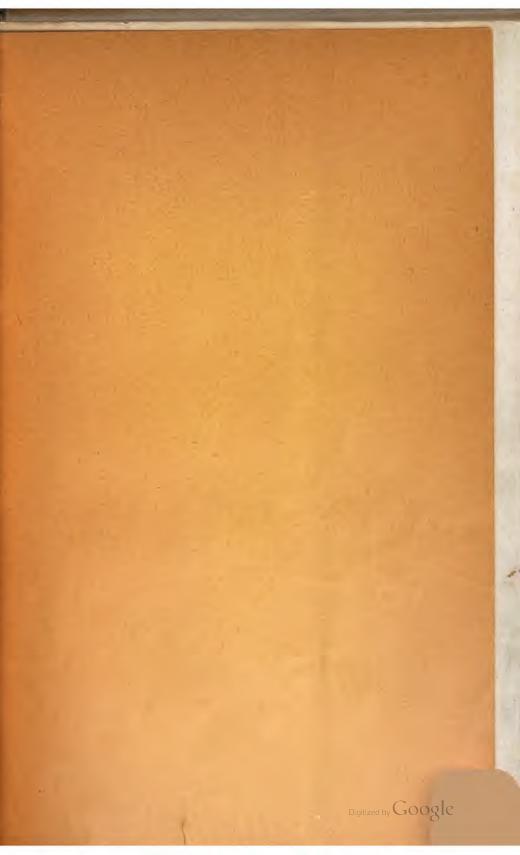
11/1	JEA-	continuea.	
Eucalyptus—	No.	Eucalyptus-	No.
goniocalyx, F. v. M	109	phoenicea, F. v. M	35
gracilis, F. v. M	56	pilularis, Smith	85
grandifolia, R. Br	13	piperita, Smith	49
grossa, F. v. M	54	Planchoniana, F. v. M	50
Gunnii, Hook. f	124	platyphylla, F. v. M	105
haemastoma, Smith	129	platypus, Hook	100
hemiphloia, F. v. M	20	polyanthema, Schauer	19
Howittiana, F. v. M.	33	populifolia, Hook	69
incrassata, Labill	54	Preissiana, Schauer	87
Kruseana, F. v. M	40	propinqua, Deane & Maiden	84a
largiflorens, F. v. M	23	pruinosa, Schauer	67
latifolia F. v. M	18	ptychocarpa, F. v. M	24
Lehmanni, Preiss	98	pulverulenta, Sims	90
leptophleba, F. v. M	72	punctata, D. C.	84a
leptopoda, Benth	117	pyriformis, Turcz	75
leucoxylon, F. v. M.	46	pyrophora, Benth	31
longifolia Tink	46		65
longifolia, Link	60	Raveretiana, F. v. M	119
loxophleba, Benth		redunca, Schauer	
macrandra, F. v. M	100	regnans, F. v. M	130
macrocarpa, Hook	75	resinifera, Smith	81
macrorhyncha, F. v. M	135	Risdoni, Hook. f	90
maculata, Hook	18	robusta, Smith	77
Maideni, F. v. M	132	rostrata, Schlecht	139
marginata, Smith	80	rudis, Endl	140
megacarpa, F. v. M	103	saligna, Smith	83
melanophloia, F. v. M	67	salmonophloia, F. v. M	113
melissiodora, Lindl	18	salubris, F. v. M	122
melliodora, Cunn	63	santalifolia, F. v. M	131
micranthera, F. v. M	121	sepulcralis, F. v. M	45
microcorys, F. v. M	83	setosa, Schauer	12
microtheca, F. v. M	71	siderophloia, Benth	70
miniata, Cunn	36	Sieberiana, F. v. M	128
Muelleri, Howitt	135	spathulata, Hook.	100
obcordata, Turcz	100	Staigeriana, F. v. M	73
obliqua, Lher	58	stellulata, Sieber	42
obtusiflora, D. C.	59	stricta, Sieber	59
occidentalis, Endl	100	Stuartiana, F. v. M	138
ochrophloia, F. v. M	56	tereticornis, Smith	140
odontocarpa, F. v. M	1	terminalis, F. v. M	31
odorata, Behr	63	tesselaris, F. v. M	23
Oldfieldi, F. v. M	104	tetragona, F. v. M	4
oleosa, F. v. M	113	tetraptera, Turcz	5
oligantha, Schauer	69	tetrodonta, F. v. M	1
pachyloma, Benth	131	Todtiana, F. v. M	47
pachyphylla, F. v. M	104	Torelliana, F. v. M	25
pachypoda, F. v. M	-54	torquata, Luehm	53
pallidifolia, F. v. M	112	trachyphloia, F. v. M	27
paniculata, Smith	34	triantha, Link	85
Papuana, F. v. M	13	uncinata, Turcz	121
patens, Benth	61	undulata, Luehm	124
pauciflora, Sieber	42	urnigera, Hook. f	38
pellita, F. v. M.	80	vernicosa, Hook. f	96
peltata, Benth.	14	viminalis, Labill	136
perfoliata, R. Br.	10	virgata, Sieber	59
Perriniana, F. v. M	88	Watsoniana, F. v. M	28
		woodaaway E. V. Mil	20

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IN ERROR to the Supreme Court of the State of California.

In Error to the Supreme Court of the State of California.

This suit, which was commenced April 5, 1879, arises out of an Act of the Legislature of California, approved March 23, 1876, entitled "An Act to authorize the widening of Dupont Street, in the city of San Francisco." An assessment was made to meet the cost incurred in its execution. Provision was made in the Act to issue and sell bonds to meet such cost in the first instance, and for the levy of an annual tax on the lands benefited, in proportion to benefits, to pay the interest on the bonds, and to create a sinking fund for the payhent of the principal debt. Bonds, dated January 1, 1876, to the amount of \$1,000,000, were issued in the name of the City and County of San Francisco, and made payable to the holder, in gold coin of the United States, twenty years after date, with interest, payable half yearly, at the rate of 7 per cent yer annum. The bonds secited that they were issued under the above Act; were to be paid out of the fund raised by taxation, as therein provided; and were taken by the holder subject to the conditions expressed in its twenty-second section, to be hereafter referred to. They were signed by the Mayor, Anditor, and County Surveyor, and attested by the official seal of the city and county. The plaintiffs in error, who were the plaintiffs below being owners of lots of parcels of land within the district subject to the assessment, and claiming that the statute was unconstitutional and void, broughthis suit to obtain a decree perpetually enjoining the defendant in error, Tax Collector of the City and County of San Francisco, rom selling their property under the assessment. Holders of the bonds, to a large amount, intervened, and were made defendants. The Court of original jurisdiction—the Superior Court of the City and County of San Francisco—rundered a decree giving the relief asked. Upon appeal to the Supreme Court of Chifornia that decree was reversed and the cause remanded, with directions to dissolve the injury time and dismiss

within that time a majority of property owners fronting on land Filbert Streets, should petition for it, there should be Street, and that portion of the assessment district should be was filed, and the widening was limited to the four block Streets. (Section 12.) apout Street, between Bush ho widening north of Bush excluded. No such petition excluded. No such petition between Market and Bush

Sar Francisco together with the dee, were constituted a "Board of fici President of the Board. (Secty were authorized) if they deemed med prescribed, to express such the passage of the Au, and if they dor taken under the act, for any 1.) As soon as convenient after of Supervisors, the Dupant Street not less than ten days, as two of informing property owners along inviting all persons interested in ed by said widening, to present to The Mayor and Auditor of the City and County of San City and County Surveyor, and their successors in office, Dupont Street Commissioners," the Mayor to be ex officition 4.) The Board of Supervisors of the city and county it expedient that Dupont Street be widened in the mindgment by resolution or order within sixty days after the lailed to do so no further proceedings were to be had on purpose, and the street was not to widened. (Section 1.) the passage of such a resolution or order by the Board Commissioners were directed to "publish a notice, for the daily papers printed in the city of San Francisco the line of said street that the Board is organized, and ared by said widening, to present to and a written statement of the nature an 6.) The Board of Commissioners, property sought to be taken, or which would be inj the Board maps and plans of their respective lots, a ure of their claim and interest in such lots." (Section their claim and interest in such lots." (Section that it is not better their claim and adopted suitable maps, plans, tain and determine and separately state in a write majority of its members, the description and act subdivisions of land and buildings included in the control of the control of the control of their control of th (Section n 6. and diagrams, were required to asce-ten report, to be signed by at least a ual cash value of the several lots and land taken for the widening of Dupont Street, and the damage done to the property alo g the line of the street, specifying and describing in their report each lot and subdivision or piece of property taken or injured by the widening of the street, as far as an accurate description thereof was furnished by the owners, and setting down against each lot, subdivision, or piece of property, the

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names of the owners, occupants, and claimants thereof, or of the persons interested therein, as lessees, incumbrancers, or otherwise, and the particulars of their interest, as far as they could be ascertained, and the amount of value or damage determined upon for the same, respectively. If, in any case, the Board found that conflicting claims of title existed, or were in ignorance or doubt as to the ownership of any lot of land, or of

any interest therein, the lot was to be set down as belonging to unknown owners.

The Board was also directed to embody, in a written report, a description of the subdivisions or lots of land included in the districts designated in Section 3 of the Act, and aivisions or lots of land included in the districts designated in Section 3 of the Act, and to set against each lot or subdivision the amount in which, according to the judgment of the Board, such lot will be benefited by reason of the widening of the street, relatively to the benefits accruing to other lots of land within the designated districts; also setting against each lot or subdivision the names of the owners, lessees, and claimants thereof, so far as the same can be ascertained conveniently, and, if not ascertained, setting them down to unknown owners. Error, however, in the designation of the owner or owners of any lot taken or assessed was not to affect the validity of the assessment. Suitable mans, plans or diagrams, showing the property taken and assessed for the improvement. maps, plans, or diagrams, showing the property taken and assessed for the improvement,

of any lot taken or assessed was not to affect the validity of the assessment. Suitable maps, plans, or diagrams, showing the property taken and assessed for the improvement, in lots and subdivisions, with the names of the owners, lessees, and claimants, as far as known to said Board, were to be attached to the report. "Such report," the Act provided, "as soon as the same is completed, shall be left at the office of said Board daily, during ordinary business hours, for thirty days, for the free inspection of all parties interested, and notice that the same is so open for inspection for such time and at such place shall be published by said Board daily, for twenty days, in two daily newspapers printed and published in said city and county." (Section 7.

Any person interested in any piece or parcel of land situated within the district defined and described in Section 3 of the Act, or in any of the lands taken for Dupont Street, or in any improvements damaged by the opening of that street, feeling himself aggrieved by the action or determination of the Board, as shown in its report, was entitled, at any time within the thirty days mentioned in Section 7 of the Act, to apply by petition to the County Court of the City and County of San Francisco, setting forth his interest in the proceedings had before the Board, and his objections thereto, for an order requiring it to file with that Court its report, and such other documents or data as may be pertinent thereto, in its custody and used by it in preparing the report. Said Court is hereby authorized and empowered to hear said petition, and shall set the same down for a hearing within ten days from the date of the filing thereof; and the party filing said petition shall, on the day he files the same, serve a copy thereof on at least one of the members of the Board of Commissioners; and said Board may appear by counsel, or otherwise, before said Court in response to said petition. Said Board may file a written answer to said petition with said Court may be used to comp

aforesaid being made, the report shall be again submitted to the said Court, and if the Court, upon examination, shall find that the alterations and modifications have been made according to the directions contained in said order, the said Court shall approve and confirm the same by an order, to be entered on its minutes; but if the said Board shall have neglected or failed to make the alterations and modifications set forth in the order of reference, the Court may again refer the report back to said Board, and so on, until its original order of alteration and modification shall have been complied with by said Board, and the said Court shall then approve and confirm said report. (Section 8.)

All damages, costs, and expenses arising from, or incidental to, the widening of the street, being fixed and determined by the final confirmation of the report, as in the Act provided, the Board was to issue bonds of the City and County of San Francisco, in such form as they might prescribe, in sums of not less than \$1,000 each, for such an amount as shall be necessary to pay and discharge all such damages, costs, and expenses; the bonds to be known and designated as the "Dupont Street Bonds," and payable in twenty years from their date, unless sooner redeemed, as in the Act provided, bearing interest at 7 per cent per annum, payable semi-annually at the office of the Treasurer of the city and county, such interest being evidenced by coupons attached to each bond and signed by the President of the Board. (Section 9.)

Any person or persons to whom damages were awarded, according to the provisions of the Act, upon tendering to the Board a satisfactory deed of conveyance to the city and county of the land for which damages were so awarded, was entitled to have bonds in an amount equal to the sum of the damages were so awarded or the lands so conveyed, together with damages for the improvements thereon, or affected thereby; and the bonds so issued and delivered were to be in full compensation for all damages for lands and imp

The Mayor, Auditor, and Treasurer were authorized to sell bonds sufficient to realize money enough to meet and discharge all expenses and damages arising from the widening of the street, established by the report as finally confirmed. The money arising from their sale was to be known and designated as the "Dupont Street Fund."

and of the street, established by the report as mally confirmed. The money arising from their sale was to be known and designated as the "Dupont Street Fund."

As soon as the bonds were converted into money, as in the Act provided, the Board of Commissioners were required to give public notice, in two daily newspapers published in the city and county, for at least ten days, that they were prepared to pay in full all damages and liabilities fixed by the final report of the Board (not then already discharged); and upon receiving from the parties entitled thereto, the proper deeds or proper acquittances from those entitled to compensation, the Board were to give to such party an order upon the treasury for the amount shown to be due, payable out of the "Dupont Street Fund." (Section 11.)

Provision was made by the Act for the levy and collected in the city and county, of taxes upon the lands described in the third section, sufficient to pay the interest on the bonds as it matured, and also sufficient to raise one twentieth of the principal, and to constitute a sinking fund for the redemption of the bonds; such taxes to be collected out of the land only, to be adjusted and distributed according to the enhanced values of the lands as fixed in the final report of the Board, and to go into the hands of the Treasurer of the city and county, as part of the "Dupont Street Fund." (Section 13.)

It was made the duty of the Board of Commissioners to cause block books to be prepared, exhibiting the district declared by the Act to be benefited by the opening of Dupont Street, according to the blocks or fractional parts of blocks thereof, and the subdivisions, according to which the benefits were fixed and determined; also, in convenient book form, descriptions of the several subdivisions shown on such books—the amount of benefits or enhanced value to the subdivision, as established by the confirmed report, by reason of the opening of the street, being set opposite to each description of the several subdivisions.

reason of the opening of the street, being set opposite to each description of the several subdivisions. The block books and description note books, being certified by the Board, were to be held by the Assessor of the City and County of San Francisco as a part of the records of his office, until all the bonds issued in pursuance of the Act were redeemed.

In case any person, to whom, or in whose favor, damages were awarded by the Board, should fail or neglect, for the period of twenty days after there were funds to the credit of the "Dupont Street Fund" sufficient to pay such damages, to ask for and receive from the Board a warrant for the sum so awarded, it could draw a warrant upon the Treasurer in favor of such owner or owners, and deposit the same with the Clerk of the city and county, accompanied by a certificate of the Treasurer that the warrant so drawn and deposited had been registered by him, and that there are funds in his hands to pay the same; and thereupon the Board, on demand, was entitled to an order of the County Court authorizing it to enter upon such piece of land and remove obstructions therefrom, and to throw open the lots so described as part of the street, and an execution could issue to the Sheriff, commanding him to put the Board in possession of such lot for the city and county; and thereafter, upon delivering to the County Court a sufficient deed conveying said lot of land to the said city and county, the party so dispossessed was entitled to receive the value of the land so conveyed, or the warrant of the Board therefor. (Section 16.)

If the owners of any lands taken for the street failed or neglected, within the space of thirty days after the money was in the treasury to pay the same, to remove the buildings.

If the owners of any lands taken for the street failed or neglected, within the space of thirty days after the money was in the treasury to pay the same, to remove the buildings and improvements from such lands, and deliver possession of said lands to said Board, on tender to them, respectively, of the sums awarded as the value of such lands, buildings, or improvements, then the Board could, at any time thereafter, sell such buildings and improvements at public auctions to the highest bidders, to be removed by the respective purchasers thereof; the sums bid at such sales to be paid in cash or in warrants of the Board; and if at such auction there shall be no responsible bidder for such improvements, with the obligation to remove them within the time specified in the terms of sale, the Board was to remove the same at the cost of the "Dupont Street Fund." (Section 17.)

(Section 17.)

The street, when widened, was to be sewered, graded, sidewalked, and paved by the municipal authorities, the expense of such work to be assessed upon the adjacent property, or borne by the city and county, in the same manner as if the street remained of its original width. (Section 18.) The railway tracks in the street were required to be removed and changed to the center of the same by the street railroad companies then using tracks

and changed to the center of the same by the street railroad companies then using tracks therein. (Section 19.)

The last section of the Act (Section 22) provided that the completion of the work should be deemed an absolute acceptance, by the owners of all lands affected by the Act and by their successors in interest, of the lien created by it upon the several lots so affected, and operate as an absolute waiver of all claim in the future upon the City and County of San Francisco, and their successors in interest, for any part of the debt created by the bonds authorized to be issued. "This shall be regarded as a contract between said owners and the holders of said bonds and said city and county, and this provision shall be stated on the face of the bonds." (Stats. Cal. 1875-76, c. 326, p. 433.)

John Garber, Thos. B. Bishop, and Jos. H. Choate, for plaintiff in error. John Mullan, A. H. Garland, and H. J. May, for defendant in error.

Mr. Justice HARLAN, after stating the facts in the foregoing language, delivered the opinion of the Court:

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The Chief Justice of the Supreme Court of California, under its order, made his certificate to the effect that in this suit and appeal there was drawn in question the validity of the above Act of March 23, 1876, and the authority exercised and the proceedings taken under it, on the ground that the statute and said authority and proceedings were repugnant to the fourteenth amendment to the Constitution of the United States, and that the decision of that Court was in favor of their validity.

The provisions of the statute to which we have referred, sufficiently indicate its scope and effect, and enable us (without referring to others that relate to matters of mere detail) to determine whether or not the Act, upon its face or by its necessary operation, is repugnant to that clause of the Constitution declaring that no State shall deprive any person of property without due process of law.

We have seen that the statute defined the district benefited by the widening of Dupont Street, and upon which the assessment to meet the cost of the work was to be imposed; made it a condition precedent to the proposed improvement that it should be declared by

Street, and upon which the assessment to meet the cost of the work was to be imposed; made it a condition precedent to the proposed improvement that it should be declared by resolution or order of the Board of Supervisors of the city and county to be expedient; directed that, after the passage of such a resolution or order, the Dupont Street Commissioners should publish, for not less than ten days, in two daily papers in San Francisco, a notice informing property owners along the line of the street of its organization, and inviting all persons interested in property sought to be taken, or that would be injured by the widening of that street, to present descriptions of their respective lots, and a statement in writing of their interest in them; allowed the majority in value of owners of property within the district embracing the lands of the plaintiffs, at any time within thirty days after the last publication of the above notice, by written protest filed with the Board of Commissioners, to defeat altogether the proposed widening of Dupont Street; required the Board to prepare a written report showing the description and actual cash value of the several lots and subdivisions of land and buildings included in the land proposed to be taken for the widening of the street, the value and damage determined upon for the same, respectively, and the amount in which, according to its judgment, each lot had been or would be benefited by reason of the widening of the street, relatively to the benefits accruing to other lots of land within the designated district; and directed

each lot had been or would be benefited by reason of the widening of the street, relatively to the benefits accruing to other lots of land within the designated district; and directed such report, as soon as completed, to be left at the office of the Board daily, during ordinary business hours, for the free inspection of all persons interested, and notice of the same being open for inspection at such time and place published by the Board daily, for twenty days, in two daily newspapers printed and published in the city and county. But this was not all. For any person interested, and who felt himself aggrieved by the action or determination of the Board, as indicated by its report, was permitted, at any time within the above thirty days, to apply by petition to the County Court of the city and county, showing his interest in the proceedings of the Board of Commissioners and his objections thereto, for an order that would bring before that Court the report of the Board, together with such pertinent documents or data as were in its custody and were used in preparing its report. It was made the duty of the party filing the petition to used in preparing its report. It was made the duty of the party filing the petition to serve, on the same day, a copy thereof on at least one of the members of the Board of Commissioners, who were at liberty to appear by counsel, or otherwise, and make answer to it. The Court was also empowered to hear the petition, and set it down for hearing within ten days from its being filed. Provision was made for the taking of testimony upon the hearing, and the Court was authorized to use its process to compel the attendance of witnesses, and the Court was authorized to use its process to compel the attendance of witnesses, and the Court was authorized to use its process to compel the attendance of witnesses, and the Court was authorized to use its process to compel the attendance of witnesses, and the Court was authorized to use its process to compel the attendance of witnesses, and the Court was authorized to use its process to compel the attendance of witnesses, and the Court was authorized to use its process to compel the attendance of witnesses, and the Court was authorized to use its process to compel the attendance of witnesses. upon the hearing, and the Court was authorized to use its process to compet the attendance of witnesses, and the production of books, papers, or maps in the custody of the Board or otherwise. The discretion given to the Court, after hearing and considering the application, to allow or to deny the order prayed for, was, of course, to be exercised judicially, according to the showing made by the petitioners. And that complete justice might be done, the Court was invested with power, not simply to approve and confirm the report of the Board, but to refer it back, with directions to alter or modify the same in the particulars specified by the Court. Until such alterations and modifications were in the particulars specified by the Court. Until such alterations and modifications were made, the Court was under no duty to approve or confirm the report; and until it was approved and confirmed, the Board was without authority to proceed at all in the work

committed to it by the statute.

Were not these provisions in substantial conformity with the requirements of "due process of law," as recognized in the decisions of this Court? In *Davidson* vs. *New Orleans*, 96 U. S. 97, 104, it was said that "whenever, by the laws of a State, or by State authority, a tax, assessment, servitude, or other burden is imposed upon property for the public use, whether it be for the whole State or for some more limited portion of the community, and those laws provide for a mode of confirming or contesting the charge thus imposed, in the ordinary Courts of justice, with such notice to the person, or such thus imposed, in the ordinary Courts of justice, with such notice to the person, or such proceeding in regard to the property as is appropriate to the nature of the case, the judgment in such proceedings cannot be said to deprive the owner of his property without due process of law, however obnoxious it may be to other objections." So, in Hagar vs. Reclamation Dist., 111 U. S. 701, 708 (4 Sup. Ct. Rep. 663): "Undoubtedly, where life and liberty are involved, due process requires that there be a regular course of judicial proceedings, which imply that the party to be affected shall have notice and an opportunity to be heard; so, also, where title or possession of property is involved. But where the taking of property is in the enforcement of a tax, the proceeding is necessarily less formal, and whether notice to him is at all necessary, may depend upon the character of the tax and the manner in which its amount is determinable. * * As stated by Mr. Justice Bradley, in his concurring opinion in Davidson vs. New Orleans: 'In judging what is due process of law, respect must be had to the cause and object of the taking, whether the taxing power, the power of eminent domain, or the power of assessment for local improvements, or some of these; and if found to be suitable or admissible in the special case, it will be adjudged to be due process of law; but if found to be arbitrary, oppressive, and unjust, it may be declared to be not due process of law." Of the different kinds of taxes which a State may impose, and of which, from their nature, no notice can be given, the Court, in that case, enumerates poll taxes, licenses (not dependent upon the extent of business), and specific taxes on things, persons, or occupations. (Page 709, 111 U. S., and page 667, 4 Sup. Ct. Rep.)

These principles were reaffirmed in Kentucky Railroad Tax Cases, 115 U. S. 321, 331 (6 Sup. Ct. Rep. 57); and in Spencer vs. Merchant, 125 U. S. 345, 355 (8 Sup. Ct. Rep. 921); in the latter of which cases it was said that "the Legislature, in the exercise of its power of taxation, has the right to direct the whole or part of the expense of a public improve-

sup. Ct. Rep. 57); and in Spencer vs. merchant, 125 U. S. 240, 300 (8 Sup. Ct. Rep. 921); in the latter of which cases it was said that "the Legislature, in the expense of a public improvement, such as the laying, grading, or repairing (and, equally, the widening) of a street, to be assessed upon the owners of lands benefited thereby;" and that "the determination of the territorial district which should be taxed for a local improvement is within the province of legislative discretion;" also that, "if the Legislature provides no notice to and hearing of each proprietor, at some stage of the proceedings, upon the question what proportion of the tax shall be assessed upon his land, there is no taking of his property without due process of law."

Tested by these principles, the statute providing for the widening of Dupont Street cannot be held to be repugnant to the constitutional requirement of due process of law. The notice by publication to all who owned property liable to be assessed for the cost of that improvement was appropriate to the nature of the case, and was reasonable in respect to the length of time prescribed for the publication, and ample opportunity was given to all persons interested to test in a Court of competent jurisdiction the fairness and legality of any assessment proposed to be made upon their property for the purposes indicated by the statute. That Court had power to require such alterations or modifications of the report of the Board of Commissioners as justice demanded. It was not bound to approve any report that did not conform to its judgment as to what was right; and without such confirmation the Board could not proceed in the execution of the work contemplated by the Legislature. contemplated by the Legislature.

If we had any doubt of the correctness of these views, we should accept the interpretation which the highest Court of the State places upon the statute. When the inquiry is whether a State enactment under which property is proposed to be taken for a public purpose accords full opportunity to the owner, at some stage of the proceedings involving his property, to be heard as to their regularity or validity, we must assume that the inferior Courts and tribunals of the State will give effect to such enactment as interpreted

by the highest Court of that State.

The Supreme Court of Californa, speaking by Mr. Justice Temple in this case, has said:

"We are not considering here a statute which is silent as to the hearing. The provisions in question were undoubtedly inserted in view of the constitutional requirement, and for the purpose of a fraction that constructive here are missing the law would be "We are not considering here a statute which is silent as to the hearing. The provisions in question were undoubtedly inserted in view of the constitutional requirement, and for the purpose of affording that opportunity to be heard, without which the law would be void. To give the statute the construction contended for would not only defeat the evident purpose, but would make the whole proceeding farcical. And, I must confess, it seems to me it requires great industry in going wrong, in view of all the circumstances, to conclude that such can be the meaning. Inapt words certainly are found in the section (Section 8), but it would not have provided so elaborately for a thorough investigation for grievances if it were not intended that redress should be awarded. The statute has, apparently, been patched and tinkered after it was first drawn, and incongruous matter injected into the body of it. But it still provides for a full hearing, and that the Court may alter and modify. And it seems that such action is to be based upon the hearing provided for. The word 'discretion' is used in various meanings, but here, evidently, it was intended to submit the whole matter to the sound judgment of the Court, to be exercised according to the rules of law." (72 Cal. 404, 421; 14 Pac. Rep. 71.)

It is said that the County Court was without power to adjudge the statute to be unconstitutional, and had no discretion, except to confirm the report, or to require it to be altered or modified. We do not perceive that this is a material inquiry, so long as the statute is not repugnant to the Constitution. But we do not admit that the County Court was without power to hold it to be unconstitutional and void—if such was its view—and to decline, upon that ground alone, to confirm any report that the Board of Commissioners might have filed. The Judge or Judges of that Court were obliged, by their oath of office, and in fidelity to the supreme law of the land, to refuse to give effect to any statute that was repugnant to thatlaw, anything

made to the confirmation of any report from the Board of County Commissioners, the Supreme Court of the State said:

"The statute does not expressly authorize the Court to pass upon the validity of the Act, or whether the Board of Supervisors had passed the necessary resolution, or the notices had been given. But the power to do this is necessarily involved in the power of the Court to act at all. It may be that the Court could not pass upon these questions, upon which its jurisdiction depended, so as to conclude all inquiry even on a collateral attack. It was a constitutional Court, invested with jurisdiction, by the Constitution, of special cases. The parties had full notice of the proceeding, and of their right to be heard." Again: "The statute places no limit upon the objections which might be made by those deeming themselves aggrieved by the action or determination of the Board, as shown in the report. As all their determinations which could affect any person were

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required to appear in the report, this would seem to include all possible objections. The determination, for instance, might have been objected to because, the Act being invalid, or the notices not having been given, the Board had no right to proceed to act at all. If this contention were sustained, the result would have been that the Court would not have

the notices not having been given, the Board had no right to proceed to act at all. If this contention were sustained, the result would have been that the Court would not have confirmed the report, and the proceedings would have ended without fixing a charge upon the property of plaintiffs. They could have complained that a wrong basis was adopted in estimating damages or benefits; that the estimated cost was too much; or for any misconduct of the Commissioners which could affect them; or that the cost exceeded the estimated benefits; and it does not seem to me that the Court would have found any difficulty in granting relief." (72 Cal. 404, 422; 14 Pac. Rep. 71.)

It is contended, however, that the Act was so administered as to result in depriving the plaintiffs of their property without due process of law. This contention is material only so far as it involves the inquiry as to whether the tribunals charged by the statute with the execution of its provisions acquired jurisdiction to proceed in respect to the lots or lands in question and the owners thereof. Jurisdiction was, of course, essential before the plaintiffs' property could have been burdened with this assessment. But errors in the mere administration of the statute, not involving jurisdiction of the subject and of the parties, could not justify this Court, in its reëxamination of the judgment of the State Court upon writ of error, to hold that the State had deprived, or was about to deprive, the plaintiffs of their property without due process of law. Whether it was expedient to widen Dupont Street, or whether the Board of Supervisors should have so declared, or whether the Board of Commissioners properly apportioned the cost of the work or correctly estimated the benefits accruing to the different owners of property affected by the widening of the street, or whether the Board's incidental expenses in executing the statute were too great, or whether a larger amount of bonds were issued than should have been, the excess, if any, not being so great as them cannot be reviewed here.

Upon the issue as to whether the Board of Commissioners and the County Court acquired jurisdiction to proceed in the execution of the statute, the evidence is full and satisfactory.

jurisdiction to proceed in the execution of the statute, the evidence is the and sausactory. The Board of Supervisors of the city and county, by resolution within sixty days after the passage of the Act, declared it to be expedient and necessary that Dupont Street should be widened in accordance with the statute. (Section 2.)

In conformity with this declaration, the Mayor, Auditor, and County Surveyor of the city organized as a Board of Dupont Street Commissioners, and by notice, published for not less than ten days in two daily papers printed in San Francisco, informed property owners along the line of that street of such organization, and invited all persons interested in property cannot to be taken or which would be injured by the widening of Dupont

owners along the line of that street of such organization, and invited all persons interested in property sought to be taken, or which would be injured by the widening of Dupont Street, to present to it maps and plans of their respective lots, and a written statement of the nature of their claim or interest in such lots. (Section 6.) The Board of Commissioners caused to be prepared and adopted maps, plans, and diagrams, and made the written report required by Section 7 of the Act, and such report was left at the office daily, during ordinary business hours, for thirty days, for the free inspection of all interested, notice that such report was so open for inspection for such time and at such place being published by the Board daily, as required by that section, in two daily newspapers printed and published in the City and County of San Francisco. Various parties who were interested in and affected by the widening of the street brought before the County Court of the city and county, by petition filed in due time, the written report of the Commissioners, and all documents in their possession.

The hearing of these petitions resulted in certain alterations and modifications of the report, and, on the twentieth of December, 1876, the County Court made its final order of confirmation. That order, after reciting in detail the performance of all the acts required by the statute in execution of its provisions, proceeded: "And it further appearing to the Court that all the proceedings taken by said Board have been duly and legally taken, and that each and all of the acts, matters, and things provided by said Act to be done and performed by said Board in the premises have, on the part of said Board, been duly and regularly done and performed, in the form, at the times, and in the manner prescribed by said Act, and said Board having this day brought the said report, as so modified, into this Court, and duly filed a petition in this Court praying that said report, as so modified by this Court, be confirmed and approved; no said Board of Dupont Street Commissioners, and no one objecting thereto, and after full consideration thereof, it is ordered, adjudged, and decreed that the said report of the said Board of Dupont Street Commissioners, in the matter of the widening of Dupont Street, filed in this Court on the twenty-seventh day of October, A. D. 1876, as modified by said Board under the orders of this Court heretofore made herein, and as the same now exists on file herein, be and the same is hereby fully and in all respects approved and confirmed. And it is further ordered, adjudged, and decreed that the lands described in the volume of said report, entitled 'Report Damages Widening Dupont Street,' be and the same are hereby taken and dedicated for an open and public street, and for the widening of said Dupont Street, between Bush and Market Streets, and that the title thereto, and every part, thereof, as particularly described in said volume of said report, is vested and every part thereof, as particularly described in said volume of said report, is vested in the City and County of San Francisco, for the purpose of said street forever, upon the payment, in the manner prescribed by said Act, to the owners of each piece or parcel of

such land, and to the owners of the improvements thereon, or upon the deposit or tender, such land, and to the owners of the improvements thereon, or upon the deposit or tender, as prescribed by said Act, of the amounts fixed and determined in and by said volume of said report." Subsequently to this order the street was widened in accordance with the report, and, as widened, is in public use, the special benefits of the improvement, whether more or less, being enjoyed by the plaintiffs, and by others in like situation. It is contended that the notices, required by the different sections of the Act to be published for a designated number of days, were not so published. This contention rests, principally, upon the ground that the notices, on some of the days, appeared in a "supplement" of some of the newspapers, and not in the body of the paper, where reading matter was usually found. There is no force in this objection, and it does not deserve serious consideration.

Other objections have been urged by the plaintiffs which we do not deem it necessary

deserve serious consideration.

Other objections have been urged by the plaintiffs which we do not deem it necessary to consider. For instance, it is said that the Mayor of the city of San Francisco, one of the Board of Commissioners, was himself the owner of a lot on Dupont Street, and for that reason was incompetent to act as one of the Board of Street Commissioners; that some of the alterations and modifications of the report of the Commissioners, made upon the hearing in the County Court of the petitions filed by different parties, were so made under private arrangements between the Commissioners and those parties, of which other property owners along Dupont Street had no notice, and by which such owners were injuriously affected; that the Board of Commissioners selected experts to "assist" it in estimating the damages for property taken and injured by the proposed improvement, and the benefits accruing therefrom; and that the report of those experts was accepted by the Commissioners, without themselves making or attempting to make an appraisement of damages or an assessment of benefits under the statute; and that such appraisement and assessment were not, in fact, correct, fair, or just, but were fraudulent. In respect to all these, and like objections, it is sufficient to say that they do not necessarily involve any question of a Federal nature, and, so far as this Court is concerned, are concluded by the decision of the Supreme Court of California.

We are of opinion, upon the whole case, that the Supreme Court of California correctly held that the plaintiffs had not been, or were not about to be, deprived of their property, in violation of the Constitution of the United States.

Decree affirmed.

FIELD, J.: I dissent.

FIELD, J.: I dissent.

20. Reports of the Auditor.

Berkeley, September 3, 1890.

A. S. HALLIDIE, Esq., Chairman Finance Committee of the Board of Regents of the University of California:

Sir: I have examined and audited the books and accounts of the Regents of the University of California for July, 1890, and find them correct.

Vouchers, properly approved, audited, and receipted, are on file in the Secretary's office for all payments.

Herewith please find trial balance of the general ledger up to and including July 31, 1890.

Respectfully submitted.

JOHN J. HERR. Auditor.

Berkeley, October 18, 1890.

A. S. Hallidie, Esq., Chairman Finance Committee:

Sir: I have examined and audited the books and accounts of the Board of Regents of the University of California for August and September, 1890, and find them correct.

Vouchers, properly examined, approved, audited, and receipted, are on

file in the Secretary's office for all payments.

Herewith please find trial balances of the Agricultural Experiment Stations and general ledgers up to and including September 30, 1890.

Respectfully submitted.

JOHN J. HERR, Auditor. Digitized by COSIC

Berkeley, February 21, 1891.

A. S. Hallide, Esq., Chairman Finance Committee Board of Regents of the University of California:

Sir: I have examined and audited the books and accounts of the Board of Regents of the University of California for October, November, and December, 1890, and January, 1891, and find them to have been kept correctly. Vouchers, properly examined, approved, and audited by the proper committee, with requisitions attached, and receipted, are on file in the Secretary's office for all payments made in above time.

The amount of cash in the several savings banks, and in the hands of the Treasurer, is as given in the general ledger, and I have verified

same at the banks and with the Treasurer.

Herewith please find trial balances of the general ledger and land ledger to February 1, 1891, and of the Agricultural Experiment Stations' ledger to January 1, 1891.

Respectfully submitted.

On file March 10, 1891.

JOHN J. HERR, Auditor.

BERKELEY, March 21, 1891.

A. S. Hallide, Esq., Chairman Finance Committee of the Board of Regents of the University of California:

Sir: I have examined and audited the books and accounts of the Regents of the University of California for February, 1891, and find them correct.

Vouchers, properly examined, approved by the proper committees, audited and ordered paid by the Board of Regents, are on file in the Secretary's office for all payments.

Herewith please find trial balance of general ledger for February, 1891.

Respectfully submitted.

JOHN J. HERR, Auditor.

BERKELEY, CAL., June 17, 1891.

A. S. Hallide, Esq., Chairman Finance and Auditing Committee of the Board of Regents of the University of California:

Sir: I have examined and audited the books and accounts of the Regents of the University of California for March, April, and May, 1891, and find them correct. Vouchers, properly examined, audited by committee, ordered paid by the Board of Regents, and receipted, are on file in the Secretary's office for all payments in above period.

Herewith find trial balance of general ledger to May 31, 1891.

Respectfully submitted.

JOHN J. HERR, Auditor. San Francisco, Cal., July 31, 1891.

A. S. HALLIDIE, Esq., Chairman Finance and Auditing Committee of the Board of Regents of the University of California:

Sir: I have examined and audited the books and accounts of the Regents of the University of California for June, 1891, and find them

Vouchers, properly examined, approved, and audited by proper committees, ordered paid by the Board of Regents, and receipted, are on file in the Secretary's office for all payments.

The condition of the investment of funds is as follows:	lows to June 30, 1891:
In State, county, and city bondsIn mortgages	\$991,000 00 886,000 00
	\$1,877,000 00
Belonging to the following funds:	
Consolidated Perpetual Endowment Fund—Bonds	. 737,694 73
Lick Observatory Fund—Bonds	. 2,000 00
Reese Library Fund—Mortgages D. O. Mills Endowment Fund—Mortgages	90,000 00 40,000 00 87,073 66
Medal Fund—Mortgages	3,248 54 13,875 85
	\$1,877,000 00
Interest received during year ending June 30, 18	391:
From bonds	9,570 00
	\$123,861 43
Belonging to the following funds:	
Consolidated Perpetual Endowment Fund—From bonds and Sta Diverted Fund Mortgages	\$66,132 51 43,744 24
Lick Observatory Fund—Bonds Mortgages	\$4,985 00 110 00
D. O. Mills Endowment Fund—Mortgages Tompkins Endowment Fund—Mortgages Reese Library Fund—Mortgages Medal Fund—Mortgages Pioche Donation Fund—Mortgages	5,445 49 491 81 2,608 74
	\$123,861 43
Cash on hand in savings banks (which I have v	erified), as follows:
In San Francisco Savings Union In Union Savings Bank, Oakland In Security Savings Bank, San Francisco In Oakland Bank of Savings In German Savings and Loan Society, San Francisco In Humboldt Savings and Loan Society, San Francisco	17,772 89 13,971 92 7,897 35 1,402 52

157 94 \$63,620 01

\$22,325 53

Belonging, nominally, to the following funds and accounts:

Brayton Property Fund. State University Fund, one cent tax Excess payments and 20 per cent deposits Pioche Donation Fund Tompkins Endowment Fund, Agassiz Professorship Diploma Fund, students' deposits. University Medal Fund German Library Fund	2,046 40 198 00 833 19 26 20	2 6 8 5
	\$63,620 O	1
Of this sum of \$63,620 01, there has been advanced from the Fund by the Treasurer:	e Genera	1
For bills paid on account of German Library For loan to J. & J. E. Johnson For loan to D. N. Hastings	12,336 4	2

Several of these deposits, as designated by the savings banks passbooks, do not correctly state to what fund or account the money belongs; some are obsolete.

I respectfully recommend that the Finance and Auditing Committee be authorized to withdraw from the savings banks all sums due the General Fund, and such further sums as may be necessary, and pay same to the Treasurer; to revise and rename the accounts in new bank passbooks, as may be needed, so that the deposits therein shall correctly show where they belong.

As an instance of the needed change, I cite "Excess payments and 20 per cent deposits" passbooks, which show on hand \$36,418 32, when there is due the United States, on account of excess, but \$4,028 92.

It has been the custom heretofore for the Secretary to deposit in his name (as Secretary) in the Nevada Bank all sums received from students as deposits for use of chemicals, materials, library dues, etc., and to repay them, at end of term or on withdrawal, balances due by his check on

There is at this date deposited in the name of J. H. C. Bonté, Secretary, in the Nevada Bank, the sum of \$1,045, as follows:

For students' library deposits, subject to withdrawal For Reese Library Contingent Fund	\$795 00 250 00
-	
Total	\$1.045 00

The Reese Library Contingent Fund of \$250 is contained in the ledger account of J. H. C. Bonté, Secretary, "Contingent Fund" of \$486 37, the balance being cash in his keeping at Berkeley. The Reese Library Contingent Fund does not appear as such in the general ledger, neither does there appear to have been any use made at any time of this fund, and having been so advised by the Secretary, I respectfully recommend that the \$250 be returned to the Treasurer into the General Fund, from which it was taken; that the sum of \$795, library dues deposits, be deposited with the Treasurer; that on and after July 1, 1891, all moneys received from students as deposits for supplies, chemicals, library dues, etc., be deposited with the Treasurer as received, and that proper accounts be opened in the general books to show receipts and payments.

And for the purpose of expediting business and to save delays, the

making of frequent calls and trips to Berkeley by the students for settlement, that the President and Secretary of the University (and in the absence of the Secretary, the Assistant Secretary) be authorized to check direct on the Treasurer in settlement of balances due students, on the special and specific accounts mentioned, and that a checkbook for this purpose be provided.

The condition of the cash account June 30, 1891, is as follows:

Cash Book "H," page 111, Cash Dr. Cash Book "H," page 112, Cash Cr.	\$211,348 25,332	43 73
In hands of L. Sloss, Esq., Treasurer	\$186,015	70
Belonging to the following funds and accounts: Revenue account, being overplus on receipts and expenses, January 1, 1889, to June 30, 1891 D. O. Mills Endowment Fund Pioche Donation Fund Tompkins Endowment Fund Diploma Fund State appropriations Reese Library Fund Morrill Aid Fund Agricultural Experiment Stations Toland Medical College State fees Students' deposits Building Fund account Consolidated Perpetual Endowment Fund	20 1,650 13,112 12,564 923 199 35 10 31,728	03 48 83 00 26 06 80 39 01 00 24 36 44
Amount due Consolidated Perpetual Endowment Fund is \$40,868 52. Due General Fund in savings banks Less due Consolidated Perpetual Endowment Fund Will leave in General Fund	\$22,825 4,439 \$17,886	08

Herewith please find trial balance to June 30, 1891, of the general, Agricultural Experiment Stations, and Morrill Aid Fund ledgers. Respectfully submitted.

JOHN J. HERR, Auditor.

SAN FRANCISCO, CAL., August 6, 1891.

A. S. Hallide, Esq., Chairman Finance and Auditing Committee of the Board of Regents of the University of California:

Sir: In my monthly and annual report of June 30, 1891, to the Finance and Auditing Committee, it was recommended that certain sums due the general and other funds, in the savings banks, be drawn and paid to the Treasurer; that the several savings banks passbooks be revised and renamed; that accounts, as necessary, be opened in the general books of account to agree with such changes. These recommendations were approved by the Finance and Auditing Committee, acting under order of the Board of Regents, as follows (Minutes, Vol. VII., page 232, dated May 14, 1890):

Resolved, That the Finance Committee of the Board of Regents be and is hereby authorized and empowered to withdraw from savings banks any or all moneys therein deposited to the credit of the Regents of the University of California, whenever the said Finance Committee shall deem it advisable, and, under the instruction of the Board, to invest the same.

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Such change	s have been	made, and	[have	to report	the following
condition of th				-	o o

In Oakland Savings Bank In Union Savings Bank of Oakland In Security Savings Bank of San Francisco In San Francisco Savings and Loan Society In German Savings and Loan Society	\$7,513 7,074 6,075 9,496 515	57 38 99
,	\$30,675	<u>50</u>
Belonging to the following funds and accounts:		
Consolidated Perpetual Endowment Fund Excess payments due United States Excess payments on minimum lands Students' deposits for diplomas Tompkins Endowment Fund German Library Fund	\$10,603 4,028 9,496 5,833 198 515	92 99 15 08
•	\$30,675	50
The condition of the cash account, after transfers from savin to the Treasurer, is as follows:	ıgs banl	cs
Cash Book "H," pages 111 and 121, Cash Dr. Cash Book "H," page 112, Cash Cr.	\$244,292 25,332	9 4 73
In hands of Louis Sloss, Treasurer.	\$218,960	21
Belonging to the following funds and accounts:		
Consolidated Perpetual Endowment Fund D. O. Mills Endowment Fund Tompkins Endowment Fund Diploma Endowment Fund Reese Library Fund Morrill Aid Fund Building Fund, one cent tax Medal Fund Pioche Donation Fund State appropriations Agricultural Experiment Stations Toland Medical College State fees Students' deposits for diplomas Revenue account (balance) General Fund	\$97,765 6,294 3,067 20 13,112 12,564 31,728 185 1,650 923 199 35 10 37,346 14,031	03 83 00 06 80 36 22 48 26 39 01 00 24 02
Total	\$218.960	

The general ledger accounts have been written to show the correct amounts in the Consolidated Perpetual Endowment Fund; excess payments due the United States; excess payments on minimum lands; German Library Fund; students' deposits for diplomas; Tompkins Endowment Fund; State of California; revenue account; and in the several savings banks, up to end of University year, June 30, 1891.

Proper accounts will be opened in the general ledger from July 1, 1891, showing deposits of students for supplies, chemicals, library dues, etc.

Trial balance of general ledger herewith.

Respectfully submitted.

JOHN J. HERR, Auditor.

Statement of Consolidated Perpetual Endowment Fund.

1. State Endowment Should have been \$811,500; State subsequently made up balance. (See	\$750,000	0 0
2d.) 2. Diverted Fund (so called)	61,500	00
This is balance due on above. Accumulated interest allowed of The State owes to the University \$79,750, on which it pays annually 6 per cent, \$4,785, until it elects to return the principal.	18,250	00
 Seminary Lands—(72 sections, or 46,080 acres). Sold by the State, 45,956.75 acres, realizing Commissioner of United States Land Office, Washington, D. C., says this grant is practically closed, but 103.77 acres being due. Forfeited Seminary Lands— 	60,947	99
Sold by the University Land Office, 1,496.07 acres, realizing	6,280	35
Sold by the State, 5,921.58 acres, realizing Commissioner of United States General Land Office, Washington, D. C., says there are due the State on this grant 1,300.92 acres. 6. Brayton Property Fund—	7,733	93
Sale of Blocks 172, 173, 192, and 193, and buildings, for		
Less returned to General Fund		
7. United States Congressional Grant of 150,000 acres— Realized on sales to July 1, 1891	87,505 699,333	
8. Interest received from savings banks— On excess and 20 per cent deposits to July 1, 1891	7,513	
9. Revenue account— Transferred to Consolidated Perpetual Endowment Fund	50,000	00
	\$1,749,063	80
Invested as follows:		
In bonds	\$903,000 737,694 10,603	73
In hands of Treasurer	\$1,651,297 97,765	
•	\$1,749,063	80

JOHN J. HERR, Auditor.

June 30, 1891.

21. Proposed Improvements.

The following matters have been fully considered and partially ap-

proved from time to time by the proper authorities:

1. Much of the ground around the buildings is worthless as soil, because the soil was scraped off many years ago. The ground should be subsoiled and heavily manured.

2. Provision should be made to rent annually the Bailey tract as a pasture.

3. The Palmer tract should be put to some use.

4. Boundaries.—The surveyor's monument on Audubon Street was removed a year and a half ago by M. G. King, town engineer. He agreed to replace it. It has not been replaced.

5. The surface of the ground between the road running from the Library to Audubon-Street bridge and the creek should be smoothed. To do this some filling will be necessary.

6. The Shooting Range.—Several trees should be cut off, should the targets remain where they are. The targets, however, should be removed to a point east of the forest.

7. Roads.—The roadway east of the Chemical Laboratory, and running northward, should be closed, as the ground is needed as a yard for

the Chemical Laboratory.

A new road should be taken out of the creek road at the west end of the Chemical Laboratory, and run northwest in front of the College of Mines, and into the road running on the north side of the College of Mines. The latter road should continue straight up the hill to the old road, and the old road should be finished to the west end of the grounds.

The creek road, ending at Audubon-Street bridge, should be guttered. A roadway should extend along the south side of the University site

from Choate Street to Audubon Street.

The road through the oak grove, and running to the west end, should be guttered and macadamized.

8. Hitching posts should be placed in convenient places.

9. The culvert across Oxford Street is in a dangerous condition; the water deposited by the heaviest rains cannot be carried off through the culvert safely.

10. Paths.—There should be one along the south side of the creek road, from its junction with the road to the horse sheds, to Audubon-

Street bridge, and be well macadamized.

One from the Library to College of Mechanic Arts.

One from the foregoing to the new Chemical Laboratory.

One broad path from the Gymnasium to the greenhouses skirting the Campus on the east.

One broad pathway from the great central path to the west end of the

grounds.

A sidewalk along the north side of Allston Way from Dana Street to Oxford Street, and on west side of Oxford Street to Strawberry Creek.

The pathway through Magnolia Grove should be improved immedi-

ately.

11. Bridges.—Two new bridges should be built at once; should be wooden or iron bridges, on brick or on stone foundations.

Audubon-Street bridge should be raised two and one half feet.

12. Dams.—Four new dams are needed. An apron is needed to the lower dam; delay in this matter will prove disastrous. We have no stone fit for such work. An apron is needed for the floor of the brick culvert; this is of immediate importance. Plans for all these have been prepared and lost.

13. Shrubbery.—A row of tall shrubbery should be planted immediately on the east side of the cinder track, for the purpose of concealing the track. Little shrubbery can be planted now, as we have no water

to preserve it.

The grove of palm trees is in danger of immediate destruction by the

students, who use the leaves to decorate with.

14. Buildings.—The interior of buildings should not be calsomined; they should be painted.

Additional urinals are needed in the Chemical Laboratory.

The Chemical Laboratory needs a very large yard, safely fenced. Walks around the building should be made, etc.

The concrete wall in front of the Library should be replaced with a better wall.

The basements of buildings should be protected by iron bars, especially the Armory and new Chemical Laboratory.

The Gymnasium needs a new tank. All the tanks should be over-

hauled.

The cottage sewer should be made to connect with the Allston Way sewer; it now connects with the Oxford-Street culvert.

The trees around the lower cottages should be thinned out or cut down

altogether.

15. Water.—We have no means of protecting the buildings against fire. The water in the old reservoir could be used for that purpose, with larger pipes. A new system of pipes connecting with the reservoir is an absolute necessity. We have needed this improvement for many years. This improvement, however, will not be sufficient. A larger reservoir, still higher, and on our own territory, is needed to enable us to contend successfully with fire. A large reservoir is needed, to enable us to irrigate the grounds. The tunnel, once cleaned out, would give the new Chemical Laboratory all the water it would need. It is an easy matter to double our water supply.

These are some of the matters that have been thoroughly considered and partially approved of. None of them have been condemned. Many other matters have been considered, and of these it will be easier to

speak than write.

I have discussed the foregoing and other matters related thereto with many distinguished men, who have made the subjects discussed special studies of a lifetime.

22. RELATIONS BETWEEN THE TRUSTEES OF THE TOWN OF BERKELEY AND THE UNIVERSITY.

I deem it my duty to call the attention of the Board of Regents to the continued efforts on the part of the Trustees of the town of Berke-

ley to obtain control of the University site.

First—Several years since, the Board of Regents, at great expense, caused a survey of the Universty site to be made. The survey was then formally adopted by the Board, and permanent granite monuments were then ordered to be placed at the several corners and turns of the said survey, and were so placed by M. G. King, the surveyor. These monuments were deemed of great importance, because prior to that time there had existed no indication whatever of the boundaries of the University site. About one year and a half since, the town of Berkeley, under the direction of M. G. King, town engineer, graded Audubon Street at a point where one of said granite monuments was placed, and the said M. G. King, against the protest of the Superintendent of Grounds, removed said granite monument. The Superintendent of Grounds requested M. G. King, engineer of the town of Berkeley, to replace the said monument immediately, and he agreed to do so. Mr. King has been frequently reminded of said promise, and to this day he neglects and refuses to replace said monument.

Second—About nine years ago the Town Trustees forcibly seized Oxford Street, near the junction of Center and Oxford Streets, and changed the course of Strawberry Creek, and built a culvert, the east



end of which was upon University ground, inside of the University

fence, against the protest of the Superintendent of Grounds.

More recently the Town Trustees allowed the University sewer pipe over Strawberry Creek culvert to be broken, and consented thereto by its own official neglect and approval, and has ever since refused to repair the said break, although the University agreed to bear half the expense of said repairs. As a natural result the sewage from the University cottages is now emptied into Strawberry Creek, to the detriment of the public health. Again, notwithstanding the fault of the Trustees in this matter, the Town Trustees publish the Board of Regents as being at fault in this matter.

Again, the Town Trustees have given a franchise to a street railway over Oxford Street, from Center Street to Allston Way, and from Oxford Street, on Allston Way, to Dana Street, knowing that a track laid on said streets must pass over University ground, the Trustees of Berkeley

meaning thus to do indirectly what they hesitate to do directly.

Again, the said railway company, acting under the authority of the Town Trustees, has placed part of its running apparatus off of Oxford Street and on a portion of the University site. In this connection you will allow me to say that the University holds ten acres of land in the southwest corner of our fence line, the place where this invasion has occurred, upon condition that no portion of said ten acres shall be encumbered.

It is not my duty to settle the law in this case, but it is my duty to impress upon the minds of those in authority the plain, undeniable facts

as they exist.

Third—Some years ago the Board of Regents laid a sewer pipe from the University buildings to the junction of Dana Street and Allston Way; then down Allston Way to Oxford Street; then down Oxford to Center Street, where the said sewer pipe connected with a main leading to the bay. The Trustees of the town of Berkeley have violated the rights of the University in the following manner:

1. They have, without consent of the Board of Regents, cut the University sewer pipe at the junction of Allston Way and Oxford Street.

2. They have, without the consent of the Board of Regents, attached the town sewer, on lower Allston Way, to the University sewer pipe.

3. They have, without the consent of the Board of Regents, connected the Dana Street town sewer with the University sewer pipe, and have made said connection on University ground.

4. The said Trustees of the town of Berkeley, as I am informed by the contractor, now claim the sewer pipe laid down by the Board of

Regents.

In this connection, I must say that the Superintendent of Grounds has held himself in readiness to consult with the Town Trustees at all times; that said Superintendent and the Committee on Grounds and Buildings have been willing at all times to consider the wishes of the people of Berkeley, and that the Town Trustees have made these encroachments upon the territory of the University without notifying any person in authority.

Fourth—Again, there is a narrow strip of land lying on the south bank of Strawberry Creek, between the junction of Dana Street and Allston Way on the west, and Choate Street on the east, which the Regents of the University have kept from public use with great care, frequently closing the same by gate and fences. A few years ago the Regents, through the Committee on Grounds and Buildings, opened a lane through the narrow strip of land for the use of University teams, proclaiming this purpose at the time of opening said lane. The Trustees of the town of Berkeley now claim this lane as town property:

1) The Town Engineer claims the lane as a street, and to prove the right of the town tears down the fence of a private citizen whose grounds

border on the lane.

(2) The Town Engineer authorized contractors to dump dirt and rock in the lane as if it were public property.

(3) The Town Trustees are now entertaining an application for a

street railway franchise through said lane.

I might carry this statement much further, furnishing in every line abundant proof of the determination of the Town Trustees to procure and use the University site without consulting the Board of Regents.

OTHER REPORTS, ETC.

The Land Agent's report will be found attached to the report of the Secretary.

The following matter will be found in the General Appendix:

Inventory of University property in the Department of Military Science and Tactics, June 1, 1891.
 Donations to the University Library at Berkeley, 1890-91.
 Presents to the Library of the Lick Observatory, 1890-91.
 Presents to the University Museum, 1890-91.

The following statements will be found in the Financial Appendix:

Statement of receipts and disbursements. Statement of receipts and discursements.

Trial balance for the month of June, 1891.

Statement of bonds and mortgages.

Account with the University Fund one-cent tax.

Condition of University Medal Fund.

Condition of Edward Tompkins Endowment Fund.

Salaries, \$142,118 28.

Fuel, \$820 35.

Equipment and repairs, \$6,730 29.

Advertising and printing, \$278,20 Advertising and printing, \$276 20.
Telegraphing and expressage, \$447 48.
Stationery, \$147 78.
Postage, \$564 25.
Land administration, \$29 16.
Incidental expenses, \$965 75.
College celebrations, \$401 55.
Official and lecturing expresses \$1 113. Official and lecturing expenses, \$1,113 30.
Cottage repairs, \$253.
Insurance, \$784 35.
Water supply, \$2,245 50.
Agricultural Experiment Stations, \$10,220 04.
College of Agriculture, \$8,564 58.
College of Chemistry, \$5,051 26.
College of Civil Engineering, \$271 79.
College of Mechanics, \$285 45.
College of Mechanics (State appropriation), \$345 90.
College of Mines (State appropriation), \$501 87.
Department of Lick Observatory, \$6,922 79.
Department of Military Science, \$558 64.
Department of Military Science, \$558 64.
Department of Physics, \$1,667 12.
Department of Physical Culture, \$1,435 04.
Library, \$2,102 63. Official and lecturing expenses, \$1,113 30.

Reese Library, \$3,846 44.

Museum, \$636 98.

University site improvements, \$13,014 40.

University Printing Office, \$343 65.

Department of Botany, \$427 35.

Department of Biology, \$267 80.

Department of Botany (State appropriation), \$253 22.

Morrill College Aid Fund, \$1,603 34.

State appropriation (One-cent Fund), \$102,434 52.

Respectfully submitted.

J. H. C. BONTÉ, Secretary.

REPORT

OF THE

LAND AGENT.

REPORT OF THE LAND AGENT.

To the honorable the Board of Regents of the University of California:

Gentlemen: I have the honor to submit the report of the Land Agent for the year ending June 30, 1891:

RECEIPTS FOR THE FISCAL YEAR ENDING JUNE 30, 1891.

From sales of the grant of 150,000 acres From sales of forfeited seminary land From interest on deferred payments due the grant of 150,000 acres From fees for applications, certificates of purchase, and patents From fees due Secretary of State for affixing seal to patents	320 00 2,135 83
Total cash receipts	\$16,719 68
Number acres for which certificates of purchase have been issued during the fiscal year ending June 30, 1891. Number acres of minimum lands patented during the fiscal year ending June 30, 1891 Number acres of double minimum lands patented during the fiscal year ending June 30, 1891	159.44 2,101.79
ACCOUNT WITH THE CONGRESSIONAL LAND GRANT OF 150,000	O Acres.
Whole number acres patented to June 30, 1890	126,227.98 4,276.47
Total number acres patented to June 30, 1891 Whole number acres bearing interest Whole number acres, full paid, awaiting patents Whole number acres, full paid, patent fees delinquent Approvals, certificates of purchase not issued Sold and patented by State Register Remaining unsold (abandoned)	8,287.38 4,703.70 280.00 360.00
Total number acres listed to the grant of 150,000 acres	149,919.29
Selections awaiting action at Washington	299.48
Total amount of principal outstanding of the grant of 150,000 acres	
Receipts from Sales of the Congressional Land Grant of 150,000 Acre	8.
Total number acres sold up to June 30, 1891	144,340.31
Cash received from above sales	\$699 333 08
TotalShowing an average price of \$5 05 per acre.	\$729,419 95

SEMINARY AND PUBLIC BUILDING LAND GRANTS.

The records of the Land Office of the University show the following number of acres listed against the Seminary and Public Building Land Grants:

Seminary Lands.

<i>g</i> =	
Marysville district	25,945.18 400.00
Sacramento district (536.09 acres sold, not listed)	400.00
Visalia district (320 acres sold, not listed)	640.00
Humboldt district (2,000 acres sold, not listed)	6,602.36
San Francisco district (490 acres forfeited to the Regents, not listed).	1,724.51
Total listed	40.432.05
Sold, but not listed	
~~~, ~~~ ····· · · · · · · · · · · · · ·	
	45,692.80

Total number acres of grant, 46,080; leaving yet to be applied for, 387.20 acres.

Public Building Lands.

Humboldt district	none.
Total listedSold, but not listede	4,960.89 960.78 5,921.67

Total number acres of grant, 6,400; leaving yet to be applied for, 478.33 acres.

### FORFEITED SEMINARY LANDS.

Statement of patents issued by the University of California from April 29, 1872, to June 30, 1891:

Date of Patent.	Number of Patent.	Number of Location.	NAME OF PATENTEE.	Area.
1880—Aug. 23 1882—Sept. 13 1885—Jan. 27 1885—Aug. 28 1886—April 28 1887—June 29 1889—Sept. 17 1891—Jan. 15	419 458 496 600	11 13 4 8	Francis L. Whitney Robert Gardner Henry Fiock George Champlin Charles W. Pierce Mrs. E. J. Atkinson James H. Wilson and Warren Moore, assignees of Andrew Corbett Herbert Kraft, assignee of S. A. Gyle Total	320 320 160 80 56.07 320 160 80 1,496.07

The following correspondence is self-explanatory:

University of California, Berkeley, June 13, 1891.

Honorable Commissioner of the General Land Office, Washington, D. C.:

Dear Sir: Under the provisions of an Act of Congress approved March 3, 1853, ten sections of land were granted for the erection of public buildings, and seventy-two sections for a seminary of learning.

Will you kindly inform me how much land has been selected and charged against the grants, and what steps we should take to acquire the balance not selected (if there is any seminary)

remaining).

An immediate answer will greatly oblige. Your obedient servant,

J. H. C. BONTÉ, Secretary and Land Agent University of California.

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DEPARTMENT OF THE INTERIOR, GENERAL LAND OFFICE, WASHINGTON, D. C., June 29, 1891.

### Mr. J. H. C. Bonté, Land Agent of the University, Berkeley, Cal.:

SIR: Replying to your letter of June 13, 1891, I would state that an examination of the records of this office shows that there have been selected by the State in satisfaction of records of this office shows that there have been selected by the State in satisfaction of the grant of seventy-two sections for seminary purposes, under Section 12 of the Act of Congress, approved March 3, 1853 (10 U. S. Stat. 244), 45,976.23 acres, of which 44,822.16 acres have been approved, leaving 1,154.07 acres unapproved. This fact was communicated to the Governor of the State in letter K, from this office, dated April 12, 1890, wherein he was advised that the grant was practically closed, the remaining deficit therein being 103.77 acres only.

Under the grant of ten sections (8400 come) for article building the Section 13.

Under the grant of ten sections (6,400 acres) for public buildings, by Section 13 of said Act, there have been selected and approved up to this time, as appears by the records, 5,099.08 acres; which amount is believed to include all the selections which have been transmitted to this office, leaving a deficit in the grant of 1,300.92 acres, which the State

is still entitled to select.

Very respectfully,

F. H. CARTER, Commissioner.

STATEMENT OF LANDS LISTED AND CHARGED AGAINST THE AGRICULTURAL GRANT OF 150,000 ACRES, TO JUNE 30, 1891.

GRANT OF	150,000 ACRES, TO JUNE 50,	1091.
DISTRICT.	Number of Lists.	Number of Acres.
San Francisco	1, Minimum	2,085.82
San Francisco	2, Minimum	1,582.73
San Francisco	3, Minimum	3,189.68
San Francisco:	4, Minimum	2,198.70
San Francisco	5, Minimum	3,680.37
San Francisco	6, Minimum	1,041.05
San Francisco	7, Minimum	7,082.18
San Francisco	8, Minimum	400.00
San Francisco	9, Minimum	160.00
San Francisco	10, Minimum 11, Minimum	3,367.64 719.88
San Francisco	12, Minimum	416.71
San Francisco	13, Minimum	1,201.87
San Francisco	14, Minimum	117.38
San Francisco	15. Minimum	360.00
San Francisco	15C, Minimum  1, Double Minimum  2, Double Minimum	860.82
	1, Double Minimum	9,628.64
San Francisco	2, Double Minimum	1,466.20
San Francisco	3, Double Minimum	226.73
San Francisco	4, Double Minimum	3,094.61
San Francisco	5, Double Minimum	1,797.25
San Francisco	6, Double Minimum	4,214.62
San Francisco		240.00
San Francisco	8, Double Minimum	80.00 2,225.98
San Francisco	9, Double Minimum	120.00
San Francisco		1,906.35
San Francisco	14A. Double Minimum	44.17
San Francisco		120.00
	,	53,629.38
Sacramento	2, Minimum	160.00
Sacramento	3. Minimum	560.00
Sacramento	4. Minimum	680.00
Sacramento	o, minimum	1,040.00
Sacramento	7, Minimum	40.00
Sacramento	8, Minimum	160.00
Sacramento	3, Double Minimum	2,479.60
Sacramento	5, Double Minimum	1,000.46 240.00
Sacramento	8, Double Minimum	80.00
Sacramento	9, Double Minimum	40.00
Sacramento	10, Double Minimum	40.00
Daoramento	20, Double Millimanianiani	6,520.08
Los Angeles	1, Minimum	2,081.49
Los Angeles	2, Minimum	160.00
Los Angeles	3. Minimum	80.00
Los Angeles	4, Minimum	323.34
Los Angeles	5, Minimum	160.00
Los Angeles	6, Minimum	120.00
Los Angeles	7, Minimum	1,626.61
Los Angeles	8. Minimum	1,459.33
Los Angeles	1, Double Minimum	840.00
Los Angeles	2, Double Minimum	1,001.81 520.00
Los Angeles	3, Double Minimum4, Double Minimum	171.54
Los Angeles	9C, Double Minimum	360.00
200 22160100	oo, bouble minimum	8,904.12
Stockton	1, Minimum	2,320.00
Stockton	2. Minimum	1,500.18
Stockton	5. Minimum	4,545.89
Stockton	4, Minimum	440.00
Stockton	5, Minimum	160.00
Stockton	6, Minimum	80.00
Stockton	7, Minimum	40.00
Stockton	4, Double Minimum	324.23
Stockton	6, Double Minimum	40.00
Stockton	7, Double Minimum	170.53
	ı	

### ANNUAL REPORT OF THE

### STATEMENT OF LANDS LISTED, ETC.—Continued.

DISTRICT.	Number of Lists.	Number o	f Acres.
Humboldt	1, Minimum	2,720.00	
Humboldt	2, Minimum	6,879.22	
Cumboldt			
Humboldt	3, Minimum	8,960.00	
Humboldt	4, Minimum	120.00	13,679.2
Shasta	1, Minimum	10,975.10	10,010.2
Shasta	6, Minimum	40.00	
Shasta	1, Double Minimum	2,364.00	•
Shasta	2, Double Minimum	2,669.83	
Shasta	3, Double Minimum	1,248.32	
Shasta	5, Double Minimum	40.00	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, Double Minimum	10.00	17,337.2
Visalia	1, Minimum	1,001.25	,
Visalia	2, Minimum	960.00	
Visalia	3, Minimum	1,890.00	
Visalia	4. Minimum	401.60	
Visalia	6, Minimum	324.08	
Visalia	1, Double Minimum	2.773.11	
	2. Double Minimum	3,217.20	
Visalia			
Visalia	3, Double Minimum	1,693.46	
Visalia	4, Double Minimum	241.40	
Visalia	5, Double Minimum	80.00	
Visalia	6, Double Minimum	80.00	10 000 1
Marysville	1. Minimum	2,400,00	12,662.1
Mawayilla		1,841.85	
Marysville	2, Minimum	280.00	
Marysville			
Marysville	4, Minimum	245.80	
Marysville		1,016.87	
Marysville	6, Minimum	280.00	
Marysville		160.00	
Marysville	1, Double Minimum	4,312.96	
Marysville	2, Double Minimum	10,889.94	
Marysville	3, Double Minimum	680.73	
Marysville	3, Double Minimum	280.00	
Marysville	5, Double Minimum	240.00	
Marysville	6, Double Minimum	40.00	
Marysville		320.00	
		400.00	22,988.1
Susanville	1, Minimum	480.00	
Susanville		587.53	
Susanville	3, Minimum	40.00	
Busanville		80.00	
Susanville		40.00	
Susanville	2, Double Minimum	40.00	
Dadia	1 Winimum	80.00	1,217.
Bodie			
Independence	2, Minimum	1,360.00	1 440
Aurora	1, Minimum	1,920.65	1,440.0 1,920.0
	,		149,919.5
Making a grand total of			

INIVERSITY LANDS REMAINING UNSOLD JUNE 30, 1891.

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W. % OI N.E. %—E. % OI N.W. %—S.W. % OI N.W. %—	7		00 000	The Towards	Mount Dieble
STATE OF THE PARTY	. 2		2000	El Dorado	Mount Disblo
E 1 of E E 1.	200		88	El Dorado	Mount Diable
N Not N F 12 St 12 of N F 12	, 6		120.00	El Dorado	Mount Diablo.
8. % of 8.W. 1/2	14 N.		80.00	Yuba	Mount Diab
N.E. X of S.E. X	27 N.		40.00	Lassen	Mount Diab
n/A	83 83		295.29	San Luis Obispo	Mount Diac
289 N.E. 54 OF S.E. 54 OF N.E. 54	. Z	ei E	88	Nevada	Mount Diablo.
A IV SO IV S	6 0 7 8		38	Theo	Mount Disk
N. Y. O. D. N. W. Z.	7 Z		88	Mendocino	Monnt Dish
N F 12 of N E 14	0.		80	San Luis Obisno	Mount Diab
N.W. 1/2 of N.W. 1/2			40.00	San Luis Obispo	Mount Diablo.
Lot 5.	17 N.		40.00	Mendocino	Mount Diab
Lot 7	17 N.		40.00	Mendocino	Mount Diab
Total number of acres			5,578.98		

# STATEMENT OF PATENTS ISSUED

By the University of California, from April 29, 1872, to June 30, 1891.

		TOTAL OF SILE FOR	ing consecrated of compounts, from taking not total to a contract to the contr				
	No. o			Mini	Minimum.	Double Minimum.	inimum.
Date of Patent.	f Patent.	Number of Location.	NAME OF PATENTEE.	Area Patented.	Accepted by State.	Area Patented	Area Accepted by State.
1872—April 29 Dec. 30	- 63	201 20	Isaac Friedlander H. H. Warburton	2,720.00	2,720.00		
Dec. 30 1873—Jan. 7	<b>∞</b> 4	21 287 <u>4</u>	Newton J. D. Shartzer W. W. Hayes, H. Lobliner, and W. R. Palmer, Trus-	120.00	120.00		
Jan. 7	10	104	Joseph M. Wood (canceled)	50.05	#0.0#		
April 21	9	296.	L. D. Latimer	40.00	40.00		
1874—Aug. 5	r- 00	104	F. C. Davis A lhert Dibhle	86 86 86 86	160.08 0.09		
	ြ		Joseph Napthaly	640.00	640.00		
	2:	318	Martin A. Britton	231.65	280.08		
_	12		Patrick Nolan	198	36.68	1 1	
	13		Patrick Nolan	160.00	160.00		
Oct.	4:		Joseph A. Carrie	78.80	8.8		
	3 %	(32	Charles A. Perkins Jacob McKissick	3 3 3 3 3 3 3	3.8		
	11	874	J. W. Haverstick	160.00	160.00		
	18	888	David N. Sherburn	160.00	160.00		
Jan. 4	25	408	Charles Camden and William MageeIohn Ellis and Erastus Wagoner			88.8	86.8 8.8 8.8
	នដ	181	Elkan Wasserman	160.00	160.00	8:00	3
	3 8	539 637 639 640 641 642	B. G. Bixby	390.00	380.00		
	3	392	Frederick Clay	280.08	280.00		
	ន	602	Charles F. Potter	40.00	40.00		,
	38	888	A. J. Forrister	86.8	88.5		
	3 8	1122	I. G. Fillit. I. P. Andrews	3;9 3;8	%. &.⊗	-	
April 22.	88	625, 892	Mendocino Lumber Company	40.6 80.08	399.78		
	3	700	Willord S. Wilterkell	41.01	10.14		

64.51	400.00	76.26 40.00 123.66	190.00	667.49 320.00
64.61	40.00	76.28 40.00 123.65	40.00	667.49 320.00
640.00 40.00 200.00 219.39 160.00	84. 84. 84. 86. 86. 86. 86. 86. 86. 86. 86. 86. 86	0.04 0.00 0.00 0.00	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	200.00
840.00 40.00 35.10 200.00 219.39 160.00	25.551 8.45.00.00.00.00.00.00.00.00.00.00.00.00.00	40.00 40.00 40.00 15.32	16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00	190.70
Jefferson Walker Lindsey Carson. Christopher Nelson. Lindsey Carson. W. H. Bogers Andrew Gehringer Stephen G. Little. Isaac Rambo (canceled)	Albert Dibble Elon W. Root Angust Hemme W. W. Hayes Silas Coopbs Hosea H. Johnson Robert G. Bixby A. B. Rorbes W. W. Revnolds	B. A. Gyle R. E. Jack Archiles B. Hicks John Harrington F. R. Farman C. D. Robinson.	A. S. C. Cleek B. B. Redding William T. Coleman J. C. Stoval, assignee of Mary A. Glotzback H. J. Holmes (canceled). William T. Garratt. George G. Berry I. W. Johns L. M. J. C., and J. L. Harl George C. Berry George C. Berry	J. C. Stoval (canceled)  Francis Boardman  William T. Coleman, assignee of John P. Nelson  William T. Coleman  Commercial and Savings Bank of San José, assignee of Mark Howel.  E. J. Baldwin (canceled)
			7 451 1 169 1 1069 1 1069 2 1270 2 1270 3 1270 4 364 5 310, 338	
	·		27 118 118 118 118 21 21 23 31 34 34 34 34 34 34 34 34	
July 11 Aug. Aug. Aug. 18 Sept. 2 Nov. 1876—Feb. Feb.	Feb. 1 Feb. 1 April 1 June 2 June 2 Aug. 2 Sept. 2 Oct. 2	1877—Jan. 1877—Jan. 186b. 19 Aprilio Aug. 11 Aug. 11 Aug. 11 Aug. 11 Oct. 2	Oct. 29 Nov. 11878—Jan. 118788—Jan. 11878—Jan. 118788—Jan. 11878—Jan. 11878—J	3.60

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STATEMENT OF PATENTS ISSUED—Continued.

	ıum.	Area Accepted by State.	280.00
	Minin		**
	Double Minimum.	Area Patented	4,230.66 274.12 817.19
	ıum.	Area- Accepted by State.	86.054.221.48.84.86.86.96.96.86.48.84.88.84.89.86.96.96.96.96.96.96.96.96.96.96.96.96.96
	Minimum.	Area Patented.	6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6
STATEMENT OF PATENTS ISSUED-Continued.		NAME OF PATENTEE.	James B. Hagein, assignee of Henry R. Williams and Thomas B. McCauley W. W. Hayes (canceled) E. J. Baldwin Joseph Russ R. E. Jack R. E. Jack R. E. Jack R. E. Jack Robert Trait Joseph J. Chandon, assignee of J. W. Brim Joseph J. Chandon Edward Kruse, assignee of Frederick Helmke Lydia M. Carter Tromas J. Price Peter Murray, assignee of Wm. W. Johnston Joseph Getz O. W. Merriam, by virtue of a certain Sheriff's deed dated January II, 1878 O. W. Merriam, by virtue of a deed signed by Amelia Burrage, administratix Charles Wood Theodore Leroy Alfred Green Joseph Russ James Turnstead Ann Alexander, assignee of August Shack Joseph Russ James Turnstead Ann Alexander, assignee of Stephen Cooper Thomas Newell, assignee of Stephen Cooper Thomas Newell, assignee of Robert Nixon R. F. Laneford
on .		Number of Location.	1089, 1060, 1061, 1062, 1083, 1094, 1096, 1086, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089,
	No. o	f Patent.	8 46878301884687 8 G0188468786018
		Date of Patent.	1878—Feb. 9.  Feb. 25.  Feb. 26.  Feb. 26.  April 15.  April 18.  April 18.  April 24.  April 24.  April 24.  Aug. 21.  Aug. 21.  Aug. 21.  Aug. 29.  Aug. 29.  Aug. 29.  Aug. 29.  Aug. 29.  Aug. 20.  Feb. 18.  Feb. 18.  Feb. 18.  Kar. 12.  Mar. 12.  Mar. 12.  Mar. 12.  Mar. 13.  Mar. 13.  May. 29.  June 6.

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									;									321.25	<b>3</b> .8	81.32	80.00	80.08 0.00	8	180.00		100 00	160.08			40.00	40.08	80.00
Richard T. Pope M. Brandenstein Dunning Gibbons	John Tuohy L. Godchaux	Edward McDonough	David H. Allen	D. N. Friesleben	Thomas T Vislentiale	Conthia E. Sanborn	M. A. Reager	C. B. Ashurst	Thomas M. McClanahan	F. R. Lofton, assignee of Eli Hackett	3. W.	Richard M. Sparks	James L. Wilbur	U. P. Berry	James H. Street	G. G. Briggs	Edward Hallett	and	Thompson, Fatchett, and Grierson, trustees, etc.	- 12	James Weyand, assignee of W. H. Bias.		William Lewiston, assignee of B. H. Brooks.	W. P. Coleman, assigned of T. D. Simnson	John M. Neville	H. Block, assignee of C. C. Bockius	Gardner, Pugh, and Haddick, assignees of E. Baven	Pearson, assignee of George H.	A. L. Huyek William McKee	John Sites	Frederick Bohn	L. Carson, assignee of W. W. Johnston
891, 972, 973 692.	782, 672, 1168 525	1283 855	369	_' .	418, DII	433	487	488	_'	529.	582	590, 591	924	1014	1141	1474	616	192, 194	088	1464		513, 690	610	245	1214, 1291	251	592, 793, 794	1449	597	535	-	522
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June June June	J. J. B.	July	Jel	July		July	July	Jaj	July	Jel.	July	Jul	Ę.	in i	Į į	July	July	<u> </u>	i i	Aug	Aug	Ψď	a de	O. C.	Oct.	**************************************	<b>6</b>	Oct.	J	Jan	Jan	Jan

STATEMENT OF PATENTS ISSUED-Continued.

		ò	STATEMENT OF FATENTS ISSUEDCOMMUNICA.				
	No. of			Mini	Minimum.	Double Minimum.	inimum.
Date of Patent.	Patent.	Number of Location.	NAME OF PATENTEE.	Area Patented.	Area Accepted by State.	Area Patented.	Area Accepted by State.
1880—Jan. 17.	148	1111	Jeremiah Morgan		1	40.00	40.00
Jan. 17	149	1151	Santa Clara Valley Mill and Lumber Company, assignee of J. M. Wood			40.00	00.04
Jan. 17	150	1373	Matthew Aaron and Abraham Kiser, assignees of	24.91	90		
Jan. 17	151	841, 646, 595, 1002, 1003	Santa Clara Valley Mill and Lumber Company,	<u> </u>		409.46	409.48
Jan. 17		307	Charles S. Lohse	27.41	40.00		2
Jan. 17 Feb. 9	3 Z	372 1129	F. T. Bradlev			9.6	8.8 8.8
Feb. 9.		445	Ambrose Lyall			160.00	160.00
Feb. 9-		414	Richard McEnespy	10.32	40.00	1	
Feb. 19.		1370, 1377 833	M. Brandenstein assignees of Wille & Conway	160.00	160.00	50.86	50.86
Aug. 23.		1181	Alexander Robertson	40.00	40.00		20.00
Aug. 23.		757	George E. Long, assignee of F. P. F. Temple			8.9	95.89 8.89
Aug. 23.		1339 1333 1335 1336	Jay burnap, assignee of Hy. M. Mitchell Lewis Garvey and Edward S. Armes	00 080 6	00 080 6	30.00	160.00
Aug. 23		8	Francis L. Whitney (Seminary, 320 acres).	2,000,00	20006		
Sept. 4.		548, 549	Sarah Margaret Simpson	240.00	240.00	1	
Sept. 4		1462 1396	Gao C Barry	8.8	8.8		
Nov. 13.		1016, 10164	James W. Kaseburg	3	3	80.00	80.00
Nov. 13.	_	1386	Joseph Thompson			27.98	40.08 6.00
Nov. 13		406, 407 541	Henry C. Wilson			4:39.40	429.40
Nov. 13.		593	David Robertson			40.00	40.00
Nov. 13		246	Pacific Mutual Life Insurance Company of California,			9	9
	173		assignee of Charles C. Bockius			3.8	3.8 3.8
	174		H. S. Graves			182.00	182.00
	175		H. S. Graves			80.00	80.08 0.00
	1,0		H. S. Graves			8.8	88 88
Jan. 17 Jan. 17.	178	48I	H. S. Graves			3.68	38 8 8
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H. S. Graves H. S. Graves J. L. Wilbur Jerome Lincoln, assignee of Siven Alstrom Gualala Mill Company, assignee of Benj. F. Warren Clear Lake Waterworks, assignee of John Bensley. Clayrn S. Kelley Horatio P. Livermore Geo. T. Hawley, assignee of Wm. H. Van Arsdale. Geo. T. Hawley, assignee of Wm. H. Van Arsdale. Thomas Mathews Thomas Lynch	de d	Connoiny County, assignee of Duncan McNee John D. Rosenberger Thomas and Patrick Kelly, assignees of Sam'l B. Marina J. A. Blasingame, assignee of W. T. Cole Robert Gordon Void Henderson Brown Warren Bryant, assignee of Jurgen Christensen Poted Void Walliam Cameron
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100	NAME OF PATENTEE.	José G. Sanchez E. J. Breen Thomas Turner William A. Brown Frank McCoppin, assignee of Thomas C. Van Ness.		Pacific Lumber Company, assignee of Mary E. Butterworth  Pacific Lumber Company, assignee of Mary E. Butterworth		terworth Milton Mining and Water Company, assignee of S. F. Butterworth North Bloomfield Gravel Mining Company, assignee of S. F. Butterworth	James B. Haggin, assignee of Horatio P. Livermore S. W. Randall, assignee of L. F. Moulton Marshall N. Bryan Marshall N. Bryan Cynthia E. Sanborn Jacob W. Babcock W. W. Durham
	Number of Location.	839. 1139. 1316, 1317 1008. 188.	1000, 1390, 1445, 1151‡ 648, 762, 759‡, 760±, 761±	235		994, 997	1407 624 624 684 684 661 670 665, 566, 567
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Benjamin N. Hartson Valentine Grant	Pacific Lumber Company, assignee of Mary E. But-	James Ripperdam	James M. Lea		E. C. Dunning, assignee of Owen Wright	J. Murietta, assignee of R. de Clairmont	Fraderick Tarke	John H. Wise and Thomas Dunnigan, assignees of	Joseph Carter	Thomas H. Howell.	George A. Lamont, assignee of J. M. Wood	John F. Todd and Kobert Gibson, assignees of G. W.	Heald Women deceased	Hoirs of lames D Smith deceased	H C Wilson	I H McNee easignee of W W Tohnston	: ::		W. F. Peabody	Edmund Jones	John D. Rosenberger	J. A. Staller, assignee of S. Morton.	L. Lamberton	John T. Jones	W. S. Bayton, assignee of J. W. Slater		3	nee or w.	John Harford	Charles Crocker	R. E. Lack	R. E. Jack	R. G. Rowley	Luther W. Phillips (canceled)	L. Godchaux	M. Brandenstein and I. Godobany essionees of M	
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STATEMENT OF PATENTS ISSUED-Continued.

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Date of Patent.	f Patent.	Number of Location.	NAME OF PAIENTEE.	Area Patented.	Area Accepted by State.	Area Patented.	Accepted by State.
		589 966 705 049	E. R. Lowe, assignee of G. M. Hiatt. Hugh A. Logan.	80:00	80.00	120.00	120.00
July 28 July 28 July 28	8888	825, 732 1831, 1834 789		630.00	630.00	40.00	40.00
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Dec. 14. Dec. 14. Dec. 15.	302 304 307	1609, 1610 583 963 403, 601	Horatio P. Livermore.  Martin A. Reager Charles W. Creighton Herbert Kraft, assignee of John Freeman	320.00	320.00	84.52 38.56 200.00	64.52 40.00 200.00
		1596. 1596. 1588, 1637, 1638. 623. 886.	Stephen Reese J. C. Stoval C. Caboval C. Cabotle	40.00 120.00	120.00 120.00	<u>:                                    </u>	40.00
Feb. 13.— Feb. 14.— Feb. 21.— Feb. 24.— Feb. 24.— Mar. 29.— April 16.—	314 315 316 317 318 318 319 319 319	713, 714, 749, 872 669, 471 673 673 682 886, 896,	M. N. Bryan D. K. Zumwalt Jos Bary Los Angeles County Bank, assignee of P. A. Raynor. P. M. Cleghorn Luther H. Phillips C. H. Hall J. H. Logan	180.00	180.00	588.50 40.00 160.00 480.00 820.80 847.37 80.00	588.50 40.00 160.00 320.00 47.37 80.00

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William Hesser. Bank of California, assignee of Wm. S. Chapman. William J. Pleasant Charles Stubbs Thomas G. Rodgers C. J. Beerstecher Ed. F. Hamilton Hers of David Rowles		Samuel Harding G. W. Humphrey J. S. Brackett James M. Hickson Rench Angele James W. Humphey	Wildiam Kennedy— Michael Pfeiffer— Charles Oppenlander William Cantilow— John Sites	Helen Weir, assignee of W. H. Lyons H. A. Logan H. A. Logan H. A. Logan H. Perkins, assignee of L. Lineberger Robert S. Hardin Elias Jacob. Ahsher E. Maxey Sperry & Perry Dolores Herrera, assignee of J. P. Knapp J. W. Garther	O. T. O. A. H. M.
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	NAME OF PATENTEE.		Connolly Conn
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160.00	40.00					418.13	35.58	160.00	230.10	00.020			160.00				*******	40.00 00.00	27.48			00.08	40.00		169.97			•			-			120.00	120.00	
H. P. Bakle, assignee of Charles E. Stewart	J. B. Haggin, assignee of James R. Watson W. R. Lames	H. Lewis, assignee of C. W. Rees Heirs of J. H. Keyes, assignees of J. W. Huffaker	and T. Brewer. R. F. Martin	Heirs of David Rowles	H. K. Boomer	J. W. Cooper	J. R. Garner	J. M. McDonald	Alexander Duncan.	U. Millon and O. Inv. assignator of Look Lither	988	e. assignee of e		R. E. Jack	C. H. Huffman, assignee of J. D. Hyde	N. Simpson	A. Kinney		W. C. Turner, assignee of W. H. Lyons	W. H. Mead	William F. Johnson	Hiram Gilmone	John McA. Brown	lin (80 acres)	Andrew J. Myers, assignee of F. T. Shirwin	er, Jr.	Martin Griffin	Robert G. Flint	Jacob Doty, assignee of Frederick Pfiel	of	B. V. Sargent	Oberla Backer acriema of Educad A Del L	Carl G. Munich, assignee of Duncan McNee	, 02		E, M. Ross
390   1140 391   10 (Seminary)	392 1162 393 489	394 384 396 571	1984	689	693	677, 974, 1684, 1685, 1686, 1687	1783	1779	402   1364, 1366	,,, =	405 981	100	03	408 1176	88		1671	-	_	414 1753			_		_	0	409 060	4 =	425   620	_		_	430 361		432 1135	433   999
		Mar. 23	-	April 2.		April 2	April 2	April 2	April 18.	April 18.					May 21.		June 12			July 2.													Oct. 13			

STATEMENT OF PATENTS ISSUED—Continued.

	Double Minimum.	Area Accepted by State.	80.00	204.09	160.00 320.00				8	80.00	46.63	83.91		320.00 320.00	40.00	230.62	
	Double M	Area Patented.	80.00	204.09	30.08 30.08				8	80.00	46.63	83.91		\$20.00 00.00	40.00	230.62	
	Minimum.	Area Accepted by State.	00 07	55.48		40.00	26.09 20.09 20.09 20.09	821.05 05000		80.00	40.00	79.88	349.57 80.00		40.00	40.00	720.00
	Mini	Area Patented.	•	55.48		40.00	460.00 460.00 40.00	321.05		80.00	40.00	79.88	349.57 80.00		40.00	40.00	720.00
STATEMENT OF PATENTS ISSUED-Continued.		NAME OF PATENTEE.	John E. Jackson, assignee of E. M. Ross The Napa Consolidated Quicksilver Mining Company	Simon Newman M. J. McGovern, assignee of John McGovern	John Boggs, assignee of M. L. Chandler John Boggs, assignee of M. L. Chandler		Charles L. French, assignee of James K. Lynch Henry C. Hawley, assignee of Amos H. Wilbur	David Burns, assignee of G. T. Thornton David Williams	D. O. Daggett, assignee of F. H. Hawley and Charles	Mary Emma Chadbourn, assignee of Henry Baker. James Clark	William Jopson Joseph Korbel	David Wooster Estate of Simon Zimmerman, deceased	Anthony Maraschi Joseph Alexander	John Reynolds John Boggs, assignee of George Champlin	James Traynor F. R. Warre	Estate of Benjamin Flint, deceased Estate of Gabriel Little, deceased	The Buena Vista Petroleum Company, assignee of
		Number of Location.	4 1170 5 1722	6 619 77 772, 773, 947 1500			3 400, 409, 413. 4 1042						4 1750, 1754, 1755 5 1717, 1718		_		
	No. of	Patent.	5 434 5 435	436 437			 244		-				454				<del></del>
		Date of Patent.	1885—Dec. 5 Dec. 5	Dec. 8		–Dec.	J880—Jan. 9 Jan. 8			Feb. 17. Mar. 16.	Mar. 24 Mar. 24	April 14 Mar. 30	April 3 April 3	April 3. April 14.	May 17. May 17.	June 7	

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	180.00	3	90.06	8	3	80.00		40.00		200.00	40.00	40.00	40.00					224.51	81.83	77.69				40.00	40.00		40.00	20.01			80.00	89 69	80.00	40.00	49.02	40.00
1 490 85	2000		68.79				80.08		38	3.2				40.00	8.08		40.00			00	280.01	2,000	200006			30.00	40.00 0.00	1.544.61	82.00		0000	100.00				
1 920 65	20.020	1	68.79				80.00		119.04	3.5			:	40.00	80.00		40.00			77 12	00 000 6	1,000.00	2010001		14	3.6	90.0g	1 544 61	82.00			M.001	1 1			
Richard Kinnan and Thomas B. Rickey, assignees of	The South Water and Mining Company, as-	The South Yuba Water and Mining Company, as-	Walter M. Jefries, assignee of Nathan Goldtree	The Northern California Land Company, assignee of	Amendatory of patent 463	T. M. Eby	S. H. Seymour, assignee of Isaac N. Stapp.	Laughlin McDonald	H. A. Logan	Wesley Burnett	James Liddle	S. M. Smoot	Edward McDonough	Michael Pfeiffer	H. S. McMichael	Canceled	William M. Scott.	Albert Dibble	Albert Dibble	Albert Dibble	John H. Fuwier	Joseph Russ	Louis Reed and A. C. Stephenson, assignees of A. C.	nd F. L. Beel	John Reynolds	The Navarro Mill Company, assignee of C. A. McFaul	William Campbell	John Forster, his heirs or assigns	Francisco P. Forster, his heirs or assigns	Mrs. E. J. Atkinson (320 acres)	James Eva, assignee of Benjamin Cuzner.	M. L. E. Sheplar, assignee of James Hawks	Kate F. Overton	Samuel J. Miller	James T. Ford	Francis Gibson
45, 52, 61	1323			1034, 1666		<u>'</u>	_	12	1562, 1563, 1607		1767		_				_	1115	-	1120	1463	976	531,				_			4 (Seminary)						_
- 464	465	466		468															_	- 485					•	•	•		•	496	•			_		
July 22.	July 24	July 24		Aug. 13.	Sept. 25	Sept. 25	Nov. 1.	Nov. 30.	Nov. 30.	Nov. 30.	Nov. 30	Nov. 30.	Nov.	1887—Jan. 11.	Jan. 11.	Jan. 11.	Jan. 20.	Feb. 9.	Feb. 9.	Feb. 9	A mil 9	April 2.	April 2.		April 2.	April 2	May 16.	Tune 27	June 27	June 29.	June 29	June 28	June 29	June 29	June 29.	June 29

1889   Pob. 20   1889   1444   P. A. Thrinet   P. A. Thrinet   Pob. 20   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140		•				_					_	_	•							٠.					-~	•							_	
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Color   Colo	170 68	90.04	8.54	40.00	180.00	51.50	. 40.00		80.08		40.00			40.00	80.08	-		120.00					320.00	624.38	30°2	120.00	40.00	<del>-</del>		-	3.35			40.00
Oct. 2.         588 144         W. A. Turner         W. A. Turner         Coop. 2.         588 144         Coop. 2.         688 144         Coop. 2.         688 142         Coop. 2.         689 142         Coop. 2.	40.00 40.00 70.56	40.00	8.08	3				40.00		3.8 8.8	86.66	40.00	40.00			3.6	8.6	2		90.09	8.6	160.00			40.00	20.00		40.00	90.00	₩.0	8	40.00	40.00	
Oct.         2.         558         1441         W. A. Turner         Charles H. F. Brauler, 20.         689         1441         Charles H. F. Brauler, 20.         689         1122         Charles H. F. Brauler, 20.         689         1141         Charles H. F. Brauler, 20.         689         1141         Charles H. F. Brauler, 20.         May 28.         641         180         Henry Venicerholz Walter, 20.         Henry R. Brader, 20.         Henry R. Brader, 20.         Henry R. Brader, 20.         Henry R. Walter, 20. <td>40.00 40.00 70.56</td> <td>40.00</td> <td>9.08</td> <td>3</td> <td></td> <td></td> <td></td> <td>37.31</td> <td></td> <td>80.17</td> <td>3</td> <td>40.00</td> <td>40.00</td> <td></td> <td>-</td> <td>3.5</td> <td>88</td> <td>3</td> <td></td> <td>8.8</td> <td>8.8</td> <td>160.00</td> <td>-</td> <td>-</td> <td>38.32</td> <td>3</td> <td></td> <td>40.00</td> <td>9.00</td> <td>34.14</td> <td>00 08</td> <td>40.06</td> <td>40.00</td> <td>-</td>	40.00 40.00 70.56	40.00	9.08	3				37.31		80.17	3	40.00	40.00		-	3.5	88	3		8.8	8.8	160.00	-	-	38.32	3		40.00	9.00	34.14	00 08	40.06	40.00	-
Peb. 20. 538 Feb. 20. 538 Many 28. 541 Many 28. 544 Many 28. 548 Many 28. 555 Many 28. 557 Many	W. P.	Henry Venigerholz and Hiram Gilmore	Mary E. Cook	M. Mulqueeney, assignee of Thomas H. Dowling	E. F. Beale	Alexander Covner	Heman Tompkins.	7	Robert A. Blair	Kobert G. Gibson	N. H. Fales	George H. Singley	George H, Singley.	John Reynolds	John Reynolds	H. Burgett	A T Wilton	Thomas Cockburn	- +	assignee of William	Ö	3, 888			įΣ	M. McStav	J. D. Starr, assignee of C. H. Schultz	C. P. Moore	George E. White	Berry Wright	Toomas Filing	John G. Bush	John G. Bush	Louis Levinsky
Poct. 22 Freb. 28 Fre	1441 1624 1422 113	659	1708	1330	1589	1564	1622	1643	1606	1656	1797	1654	1656	1322.	1328	1574	1570	552	1319.	000	1553	1231	716	781	1556	1557	1648	1642	1736	1691	1713	1726	1719	1257
Preb. Freb.	88 88 88 88 84 88	32.2	32	3	25. 25. 25. 26. 27.	7.5	84	249	8 8	2 2 2 2 2 3 3 3 3	553	554	555	556	557	00 X	3 6	561	262	883	36	88	8	S 28	88	570	571	572	573	574	578	577	578	579
	Peb.	May 28.	May 28	May 28.	May 28	May 28-	May 28.	May 28.	May 28	May 28	May 28	May 28.	May 28.	June 22.	June 22.	June 22	June 22	June 22	June 22.	O oun	June 22	June 22.	June 22.	June 22	June 22	June 22	June 22	June 22.	June 22.	July 24	Tuly 24	July 24.	July 24.	July 24.

	inimum.	Area Accepted by State.	40.00	40.00			120.49		8.8 8.8	120.00	900					90	<b>40.06</b>	40.00	40.00	40.00					40.00	86		324.08	40.00			40.00	
-	Double Minimum.	Area Patented.	40.00	40.00			120.49	00.00	80.03	120.00	8.08					00.07	40.00	37.00	40.00	40.00					40.00	86	20100	324.08	40.00			40.00	
÷	Minimum.	Area Accepted by State.			40.00	40.00	100	40.00		:		40.00	40.00	40.00	<b>40.00</b>	40.00	40.00	<b>3.</b> 2€				8	3.6	8.6	3.5		63.56				9.6		40.00
	Mini	Area Patented.			40.00	40.00		40.00				40.00	40.00	40.00	40.00	33.89	90.10	02.TQ				97.07	8.6	36	3.0	:	63.56			:	9.6	20.001	40.00
STATEMENT OF PATENTS ISSUED-Continued.		NAME OF PATENTEE.	Lonis Levinsky	Louis Levinsky	W. P. Ink	W. P. Ink	Jackson Brown.	Frederick Yordi	Matthew Lynch   Allen Towle	Allen Towle	Charles David	Ruel Stickney	Ruel Stickney	Ruel Stickney	Charles C. Paulk	Berry Wright	Down Which	Anomatha Moore	George Atkinson	Hiram M. Buck	James H. Wilson and Warren Moore, assignees of	Andrew Corbett (160 acres)	1. D. Marks and M. Neroneld, assignees of C. H. English.	Tomos W Burns	Robert Clark againnes of Alfred Triober	William Farrington assigned of Peter Donnelly	William E. Kaiser assigned of Isaiah Vount.	John C. Russell, assignee of William A. Russell	Jesse D. Carr	N. Goldtree, assignee of Morris Goldtree, assignee of	the estate of David Russell in insolvency	Peter Bartle assignee of George Bartle	William Dinning.
		Number of Location.	1261	1265	1559	1561	1049	1555	1508 883	865	1285	747	7473	747\$	1682	1689	921 1000	1149	1800	1443	Seminary	9	1,000	1603	F98	1313	1,586	1748	1618	1650	803	1036	1678
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		atent.							- L																			6				14	•
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280.00	320.00	080.00	190 00	2000	8.00	0000	160.00	330.00	00 000	200.00	920.00	280.00	240.00	320.00	160.00	240.00	200.00	200.00	28.00	0.00	40.00
280.00	320.00	280.00	190 00	00 068	00000	3	160 00	320 00	00 006	200.00	00.026	200.00	240.00	320.00	160.00	240.00	200.00	200.00	20.00	130.00	40.00
Sierra Lumber Co., assignees of C. T. Hopkins, trustee	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	Sierra Lunber Co., assignees of C. T. Hopkins, trustee	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Fitume and Lumber Co.	in bankrupicy of Sierra Fiume and Lumber Co Sierra Lumber Co., assignees of C.T. Hopkins, trustee in bankrupicy of Sierra Flume and Lumber Co.	Sierra Lumber Co., assignees of C. T. Hopkins, trustee		Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assigness of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co. , assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assigness of C. T. Hopkins, trustee	in bankruptcy of Sierra Fume and Lumber Co. Sierra Lumber Co., assignees of C. T. Hopkins, trustee	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co.
801	802	803	708	908		808	608	810	811	812.	813.	814	815	816			851	862	858	864	866
613	614	615	919	617	618	619	620	621	622	623	624	625						631		833	634
Oct. 14	14.	14.	14.	14.	14	14	14.	14	14.			14		14.	14	14.					14
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STATEMENT

6		ANNUAL REPORT OF THE
Double Minimum.	Area Accepted by State.	40.06 40.09 40.00
Double M	Area Patented.	88.28 88.28 88.28 88.28
num.	Area Accepted by State.	8.88 64 64 64 68 68 68 68 68 68 68 68 68 68 68 68 68
Minimum.	Area Patented.	8.00 8.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00
	NAME OF PATENTEE.	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co. sierra Flume and Lumber Co. in bankruptcy of Sierra Flume and Lumber Co. in bankruptcy of Sierra Flume and Lumber Co. in bankruptcy of Sierra Flume and Lumber Co. in Bell, assignee of Hugh Roddin John Johannsen.  Sierra Lumber Co., amendatory of patent No. 619 George H. Crocker.  J. H. Burchard.  R. A. Loomis, assignee of N. S. Robinson, the latter assignee of Charles Ashton.  William Finkerton, Jr., and Charles W. Jackson, assignees of Charles Ashton.  W. G. Mathers.  Isaac N. Chapman.  John F. Todd.  Oscar R. Harmon.  John Glesson.  Alexander Coyner.  Julius Weyand.  R. M. Poyson.  R. M. J. Thomas.  A. J. Thomas.
	Number of Location.	869 632 1367 1866 1699 1704 1699 1699 1699 1699 1699 1774 174 174 174 172 172 172 172 172 172 172 172 172 172
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	tent.	41 41 44183888 88 88 8888888 89 88 88 88 88 88 88 8
	Date of Patent.	1889—Oct. Oct. Oct. Oct. Oct. Oct. Dec. Dec. Dec. Jan. Jan. Jan. Jan. Jan. Jan.
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160.00 160.00 40.00 40.00 80.00 135.73	48444488888888888888888888888888888888	40.00
L. V. Cushman L. V. Cushman John McGann W. G. Henneke, assignee of J. W. Gaither Alliam A. Morris Mary E. Peppard, assignee of John Mullin Andrew I. Viele Frank W. Lynch, assignee of James Lynch Frank W. Lynch, assignee of James K. Lynch	Frank W. Lynch, assignee of James K. Lynch James Lynch James Inch James R. Hobbron B. V. Sargent B. V. J. Donnelly, and J. F. Dunne, assignees of Robert Morrison E. T. Donnelly A. J. Donnelly, and J. F. Dunne, assignees of Robert Morrison James F. Dunne, assignee of E. T. Donnelly James F. Dunne, assignee of E. T. Donnelly James F. Dunne, assignee of J. W. Gaither B. B. Smith William Dunphy George E. Otis William Dunphy George E. Otis William Lumber Co., assignees of C. T. Hopkins, trustee in bankruptey of Sierra Flume and Lumber Co. Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptey of Sierra Flume and Lumber Co. Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptey of Sierra Flume and Lumber Co.	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co
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# STATEMENT OF PATENTS ISSUED—Continued.

		No. 0			Mini	Minimum.	Double Minimum.	inimum.
Date of Patent,	ant.	f Patent.	Number of Location.	NAME OF PATENTEE.	Area Patented.	Area Accepted by State.	Area. Patented.	Area Accepted by State.
1890—May	-2	101	1061	Sierra Lumber Co., assignees of C. T. Hopkins, trustee				
May	2	702	1062	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	8.08	80.08		
Mav	2	703	1063	in bankruptcy of Sierra Flume and Lumber Co	120.00	120.00		
You May	6	25	908	in bankruptcy of Sierra Flume and Lumber Co.	160.00	160.00		
,		101	100	in bankruptcy of Sierra Flume and Lumber Co	202.75	202.75		
van.	; (	3	200	in bankruptcy of Sierra Flume and Lumber Co	160.00	160.00		1
May	77	98	898	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	240.00	240.00		
May	2	101	668	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	000	000		
May	2	208		in bankruptcy of Sierra Filme and Lumber Co. Sierra Lumber Co., assignees of C. T. Hopkins, trustee	920.00	920.00	1	
May	٥.	200		in bankruptcy of Sierra Flume and Lumber Co	314.03	314.03		
		2 1		in bankruptcy of Sierra Flume and Lumber Co	298.61	298.61		
May	7	21/	910	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruntey of Sierra Flume and Lumber Co.	320.00	320.00		
May	2	111	911	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	8	8		
May	2	712	912	in bankrupicy of Siefra frume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	200.00	200.00		
Mav	2	713	913	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co. assignees of C. T. Honkins, trustee	320.00	320.00	1	
Mex	c	-	710	in bankruptcy of Sierra Flume and Lumber Co.	320.00	320.00		
May ,	1 0	1	0.13	in bankruptcy of Sierra Plume and Lumber Co	320.00	320.00		
May	77	972	916	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptev of Sierra Flume and Lumber Co.	321.11	891 11		
May	2	716	916	Sierra Lumber Co., assignees of C. T. Hopkins, trustee		9	; ; ; ; ; ;	! ! ! ! !
May	2	717	917	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	920.00	00.026		
•				in bankruptcy of Sierra Flume and Lumber Co	320.00	320.00	-	

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	Mini	Area Patented.		
STATEMENT OF PATENTS ISSUED—Continued.		NAME OF PATENTEE.	Joseph Farman, amendatory of patent No. 746  Herbert Kraft, assignee of S. A. Gyle (80 acres) John C. Schlarbaum G. M. Howard, assignee of John Woodson G. S. Merrill, Jr., assignee of John Woodson G. S. Merrill, Jr., assignee of Geo. W. Cozzens Geo. Vaughan T. S. Hawkins, assignee of A. S. Murphy, the latter assignee of T. H. French James F. Dunne, assignee of E. T. Donnelly James F. Dunne, assignee of E. T. Donnelly James F. Dunne, assignee of E. T. Donnelly Jermish C. Hannon W. F. Edgar Robert Boswell T. H. French William Sorvin, assignee of Edward F. Osborne, the latter assignee of T. H. French William Sorvin, assignee of William Raishleigh Walter M. Jeffreys	
	īo. oi	Number of Location.	762 1172	
		Date of Patent.	1891—Jan. 13. Jan. 13. Jan. 26. Feb. 25. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. April 7.	

æ, <del>2,</del>	129,624.95	81,619.42 48,885.03	130,504.45
Total area of minimum land patented Total area of double minimum land patented	Total area patented to June 30, 1891	Total area of minimum land accepted by State	Total area accepted by State

J. H. C. BONTÉ, Land Agen

Respectfully submitted.

# GENERAL APPENDIX.

### INVENTORY OF UNIVERSITY PROPERTY IN THE DEPART-MENT OF MILITARY SCIENCE AND TACTICS.

JUNE 1, 1891.

### BOOKS.

Webster's Unabridged Dictionary.
Owen's Modern Artillery.
Decisive Battles of the World.
Studies in Troop Leading (Cavalry).
Soldiers' Pocketbook for Field Service.
Pieces of Modern Tactics.
Campaigns of the Army of the Potomac.
History of the Civil War; by Count de Paris.
Personal Memoirs of U. S. Grant.
Decisive Battles of the War.
Memoirs of General W. T. Sherman.
Battles of the Republic.

Lessons of War, as Taught by the Old Masters.
Blunt's Manual of Small Arms Practice (2 copies).
Elementary Principles Connected with the Art of War.
The Great Captains, Hannibal; by Dodge.
Gopies).
Military Hygiene.
Military Law.
Elements of Modern Tactics, Memoirs of General W. T. Sherman. Battles of the Republic.
Text-book of Military Topography.
Influence of Firearms upon Tactics.
Wilhelm's Military Dictionary (2 copies).
Jomin's Art of War.
Victories and Defeats.
The American Experies

Elements of Modern Tactics. Foil Tactics. Great Captains, Alexander; by Dodge. Influence of Firearms upon Tactics.
Wilhelm's Military Dictionary (2 copies).

Jomini's Art of War.
Victories and Defeats.
The American Kriegspiel.
Art of War; by Marcus.
Operations of War.
Strategos and Maps.
Wheeler's Art and Science of War (45 copies).
Wheeler's Elements of Field Fortifications
(36 copies).

Great Captains, Alexander; by Dodge.
Submarine Mines, etc.
Gunnery; by MacKinley.
Field Works; by Brackenburg.
Letters on Infantry; by Hohenlohe.
Letters on Infantry; by Hohenlohe.
Report of Inspector-General, 1890(2 copies).
Report of General Schofield, 1890.
Report of Chief of Ordnance, 1890.

### OTHER PROPERTY.

19 officers' swords and belts.
7 officers' swords and belts (new).
2 bunting flags, large.
4 blue silk markers' flags. 5 drums (worthless). 12 drumsticks. 12 dramsticks.
9 bugles (worthless).
1 silk battalion flag (new).
1 silk battalion flag (old).
1 set stencil plates (Ex. missing). 2 sets numbers. 85 white canvas bags. 2 belts for drums. 2 flag belts. 2 pinions for belts. 1 flag chest. 1 gun rack. 1 desk. 1 Ex. en. receipt book. 1 piece (worthfess). 1 coal hod. 1 stove and fixtures. 1 broom. 1 sweeping brush. 1 dustpan. 1 feather duster. 1 paint brush. 1 screwdriver. 1 hammer.

1 wad cutter. 2 round files.

2 small cleaning brushes. 1 can oil. 1 oil can. 1 set mourning drapery. 1 package popn. targets. 1 metal fife. 2 Ballard rifles (22 cal.).
2 metal balls (for snap shooting).
1 brass cleaning-rod (22 cal.).
1 cut (rifle name U. C.) for Blue and Gold. 1 box stencil color and brush. 1 globe. 1 letter press (complete). 1 bookcase. 30 chairs. 1 iron letter box. 2 tape measures (100 feet). 2 glass inkstands. 1 automatic map box with ten maps.
1 map of the United States.
1 map of Europe.
1 hatchet.
2 wall files. 2 table files. 1 rubber stamp (Mil. Dept. U. C.) 2 letter books for letter press. 2 signal flags, 4-ft. (white, with red centers). 2 signal flags, 4-ft. (red, with white centers). 2 drums. 2 pairs drumsticks. 2 drum slings.

2 tables. 3 telegraph keys. 4 signal staffs (10 feet). 4 signal staffs (6 feet). 1 telegraph register. 1 metronome. 9 brush brooms. Number of band selections. dozen clarionet reeds.

i piccolo music rack.

clarionet racks. 1 scrap basket. 4 signal flags, 2-ft. (white, with red centers.)
6 bugles (new; complete).
2 storm flags. 1 inkwell. 1 post flag.
12 cans blacking for belts.
1 gallon cylinder oil.
6 bugle cords.
1 Flickley 2 boxes bands. 4 memorandum books. 2 blotters. 1 bottle red ink. 1 pencil rubber. 1 Eb piccolo. 1 Eb clarionet. 3 dozen pen points. 1 Bb clarionet. 1 box fasteners. 3 Bb cornets. 1 note pad.  $\begin{array}{c} 3 \ Eb \ altos. \\ 2 \ Bb \ tenors. \end{array}$ 3 notebooks. 1 ink pad. 1 Bb baritone. 1 Bb bass. 1 inkstand. 2 steel erasers. 2 bottles ink. 1 Eb bass. 1 snare drum. 1 penknife. 1 ruling pen. 3 board clips. 1 bass drum. 1 pair cymbals. Crepe for flag. 16 music stands. 18 music books.

All the University property received by me when I released Lieut. G. F. E. Harrison, September 23, 1890, and all purchased or received since, is accounted for except two field glasses, which were stolen from the armory in April, 1891, and one copy of the "Art of War," which was paid for and the money turned in.

Respectfully submitted.

B. H. RANDOLPH,

First Lieut. of Third Art., Professor of Military Science and Tactics.

## DONATIONS TO THE LIBRARY, 1890-91.

	Books.	Pam- phlets.
Adelbert College		1
Adrian College		1 2
Adrian College		7
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Alabama Geological Survey Alabama Industrial and Scientific Society Albion College Alcorn Agricultural and Mechanical College American Antiquarian Society American Bankers' Association	1	
Alabama Industrial and Scientific Society		1
Albion College		1
Alcorn Agricultural and Mechanical College		2
American Antiquarian Society		1
American Bankers' Association		1
American Congregational Association	.	. 1
American Geographical Society	. 3	
American Institute of Mining Engineers	. 1	
American Philosophical Society		
American Geographical Society. American Institute of Mining Engineers. American Philosophical Society. American Society of Microscopists. American Standard	.	
American Standard	.	
Amherst College		
Andover Theological Seminary		
Anonymous	. 8	
Apprentices' Library, New York		
Apprentices' Library Company of Philadelphia	.	
Arkansas Geological Survey	. 1	
Arkansas Industrial University		
Armes, William D., Class of 1882, U. C.	. 3	1
American Standard. Amherst College. Andover Theological Seminary. Anonymous Apprentices' Library, New York Apprentices' Library Company of Philadelphia. Arkansas Geological Survey. Arkansas Industrial University Arkansas Industrial University Armes, William D., Class of 1882, U. C. Astronomical Observatory of Harvard College. Astronomical Society of the Pacific Athens Library.		l
Astronomical Society of the Pacific		
Athens Library		
Auburn Theological Seminary		
Athens Library Auburn Theological Seminary Ayers, Howard, Milwaukee		
Babcock-Wilcox Co., New York Bacon, Prof. T. R. Bailey, Charles A., San Francisco 1 map Baker & Co., Dorchester, Mass. Baltimore College of Dental Surgery	. 1	
Bacon, Prof. T. R.	. 6	l
Bailey, Charles A., San Francisco		
Baker & Co., Dorchester, Mass.	. 1	
Baltimore College of Dental Surgery.		
Bangor Public Library	-	
Barnard, E. E., Lick Observatory	-	
Bartlett, Columbus	. 5	
Baltimore College of Dental Surgery Bangor Public Library Barnard, E. E., Lick Observatory Bartlett, Columbus Batavia, Java, Observatory Bates College Beard, D. L., Class of 1891, U. C. Beer, William, Topeka Bellevue Academy Bellevue Academy	. 1	
Bates College		
Beard, D. L., Class of 1891, U. C.	. 2	
Beer, William, Topeka	-	
Bellevue Academy		1
Belmont School		
Belmont School Beloit College Berlin Akademie der Wissenschaften Bethel College Bishop, Mrs. D. L., Berkeley Bishop Scott Academy Bopn Universität	-	
Berlin Akademie der Wissenschaften	. 1	
Bethel College	-	
Bishop, Mrs. D. L., Berkeley	_ 2	
Bishop Scott Academy	-	1
Bonn Universität		18
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	Books.	Pam-
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British Association Advancement of Science Bronson Library Fund	! !	2
Brooklyn Institute Brooklyn Library Brown, John C., Haddington, England Brown University Brownell, T. Frank, New York Brussels Université.	1	
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Brown University		4
Brownell, T. Frank, New York		ī
Bryn Mawr College		1 2 1 2 1
Buchtel College		ī
Bucknell University Buenos Aires Universidad		2
Buffalo Historical Society		2
Buffalo Library		2
Buffalo Library Bunnell, Prof. George W. Burnham, S. W., Lick Observatory	z	4
California Academy of Sciences	2	
California Board of State Harbor Commissioners		1
California Academy of Sciences California Board of State Harbor Commissioners California Board of State Viticultural Commissioners California College California Secretary of State California State Association of Y. M. C. A. California State Association of Y. M. C. A.	1	
California Secretary of State	2	1
California State Association of Y. M. C. A.		1
California State Board of Forestry		1
California State Mineralogist	i	
California State Normal School, San José		1
California State Printer	3	z
Cambridge Philosophical Society	ĭ	
Canada Central Experiment Farm		3 4
Canada Minister of Finance	i	
California State Association of Y. M. C. A. California State Board of Forestry California State Library. California State Mineralogist California State Normal School, San José California State Printer. California State Superintendent of Public Instruction Cambridge Philosophical Society. Canada Central Experiment Farm. Canada Geological and Natural History Survey Canada Minister of Finance Canadian Institute Canebrake Agricultural Experiment Station Canisius College		7
Canisius College		1
Capital University Carlton College Carthage College		• 1
Carthage College		1
Case School of Applied Science		1
Cathedral School of St. Paul Catholic University of America		1
Central University of Kentucky Chicago Public Library Chicago University Christiania Bibliotheque de l'Université City Library Association of Springfield Civil Service Chronicle		1
Chicago Public Library		1 1 5 1 1 2 2 2 1 2 2 1 2 1 1 1
Christiania Bibliotheque de l'Université		5
City Library Association of Springfield		ĭ
Civil Service Chronicle		1 2
Clark University Clay, Cassius M., Whitehall, Ky. Cobden Club, London.		2
Cobden Club, London		1
Coimbra Universidad Colby University	1	2
Colgate University College of Montana		Ī
College of Now Jarsay		3
College of New Jersey College of Pharmacy of New York College of the City of New York Colorado College and Cutter Academy		i
College of the City of New York		. 1
Columbia College and Outter Academy	1	1 1
Columbia College Columbian University Connecticut Agricultural Experiment Station		Ī
Cook, Prof. Albert S., New Haven	1	7 2
Cooke, H. H., Chicago	3	
Cooper Union for Advancement of Science and Art.		1
Cornell University	i	1 6
Cumberland University Cummings, Miss S. M. N.		2
Cust, Robert N., London	1 2	
Cutter, C. A., Boston		1

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Dante Society, Cambridge, Mass.  Dartmouth College  Davidson, Prof. George  Davidson College  Davie, John L., Oakland  Davis, A. McF., Cambridge, Mass.  Davis, Hon. Horace (besides 26 duplicates)  Delaware College  Denver Public Library  De Pauw University  Detroit Public Library  Dille, Rev. E. R., Oakland  Dorpat Universität  Drew, Elmer R., Class of 1888, U. C. 2 photographs  Druy College	i	1
Dartmouth College		2
Davidson, Prof. George	1	
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Davie, John L., Oakland		1
Davis, A. McF., Cambridge, Mass.		2
Davis, non. norace (besides 20 duplicates) 4 maps		174 1
Delaware College		ī
Denver Public Library		3
De Pauw University		3 2 · 1
Detroit Public Library	1	
Dille, Rev. E. R., Oakland		3
Drow Flmer P. Class of 1999 II C. 2 photographs	8	157
Drury College photographs		1
Edmands, John, Philadelphia		1
Emory and Henry College		1
Edmands, John, Philadelphia Emory and Henry College Erlangen Universität Erskine College Essex Institute, Salem, Mass. Evangelical Educational Society, Philadelphia Experiment Station of Florida		53 1
Essex Institute, Salem, Mass.		6
Evangelical Educational Society, Philadelphia		ĭ
Experiment Station of Florida		2
Findlay College		. 1
Firenze Reale Accademia		1
Fisk University France Ministere de l'Agriculture Franklin and Marshall College		2 5
Franklin and Marshall College		ĭ
Franklin College		ī
Fraser, W. H., Class of 1890, U. C.	1	
Fraser, Persifor, Philadelphia		2
Franklin College. Fraser, W. H., Class of 1890, U.C. Fraser, Persifor, Philadelphia Friend's Book Store, Philadelphia Furman University		2
Furman University		1
Gambier College Gayley, Prof. Charles M. Gazette Publishing Co., Golden Gate. Geddes, Prof. Patrick, Edinburgh. General Theological Seminary. Geneva College Geneva Université Georgetown University Georgia Experiment Station Georgia Commissioner of Agriculture Giessen Universität Gilman, Arthur, Cambridge, Mass. Goppelsroeder, Dr. Friedrich Göttingen Universität Gratz Universität Great Britain Secretary of State		1
Gayley, Prof. Charles M.	1	
Gazette Publishing Co., Golden Gate		6
Geddes, Prof. Patrick, Edinburgh		1
General Theological Seminary		1
Geneva Université	3	14
Georgetown University		î
Georgia Experiment Station		4
Georgia Commissioner of Agriculture		6
Giessen Universität		23
Connels and Dr. Friedrich		23 1 1 90
Göttingen Universität	6	on a
Gratz Universität		4
Great Britain Secretary of State		4 5 5
Greene Prof. Edward L.		5
Greifswald Universität. Griffis, Rev. William E., Boston. Groningen Universiteit Grunsky, C. E.		7
Griffis, Rev. William E., Boston	1	
Groningen Universiteit	1	1
Grunsky, C. E		
Halle Universität	9	138
Hamilton College		1
Hampden Sidney College		1 2
Hampton Normal and Agricultural Institute		2
Hannemann Hospital College		]
Hamis Tosoph Moreton Farm N V		]
Hartford Seminary		1
Hartsville College		j
Harvard University	1	18
Hatch Experiment Station		5
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	Books.	Pam- phlets.
Healdshurg College		1
Healdsburg College Hebrew Technical Institute Heidelberg Universität Hemphill, Henry, San Diego Henderson, W. W. Heydenfeldt, S., Jr., San Francisco Hilgard, Prof. Eugene W. Hill, Charles B., Lick Observatory Hillsdale College Hiram College		1
Heidelberg Universität	3	43
Henderson, W. W.		$\frac{1}{2}$
Heydenfeldt, S., Jr., San Francisco		2
Hill Charles B. Lick Observatory	2	1 1
Hillsdale College		1
Hiram College		1
Historical Society of Southern California		i
Historical and Philosophical Society of Ohio Historical Society of Southern California Hittell, John S. Hobart College Holden, Prof. Edward S. (case photographs, besides 29 duplicates) Holden, Prof. Warren, Philadelphia	2	
Holden, Prof. Edward S. (case photographs, besides 29 duplicates)	4	$\frac{1}{24}$
Holden, Prof. Warren, Philadelphia	ī	1
Hope College Howard, George E., Lincoln, Neb. Howard Memorial Library Howard University Howison, Prof. George H.		2 4
Howard Memorial Library		i
Howard University		1
Howison, Prof. George H.	2	
Illinois Society of Engineers and Surveyors.  India, Great Trigonometrical Survey		1
India, Great Trigonometrical Survey	3 4	
Institution of Civil Engineers, London International American Conference Inyo Academy	4	·····i
Inyo Academy		1
Iowa Historical Society	1	4 1 1
Iowa Wesleyan University		ī
Inyo Academy Iowa Historical Society Iowa State University Iowa Wesleyan University Irving Institute Italy, Ministero di Agricolturo, etc. Italy, R. Comitato Geologico		1
Italy, Ministero di Agricolturo, etc.		6 1
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Jackson, Prof. A. W.	6	3
Japan Seismological Society		2
Jena Universität	20	55 11
Japan Imperial University Japan Seismological Society Jena Universität Johns Hopkins University Jones, John P., M.C.		1
	1	
Kansas Academy of Science	1	7
Kansas State Historical Society	1	1
Keeler, E. W., San Francisco		1 1
Kellogg, Prof. Martin	5	13
Kentucky Agricultural Experiment Station		6
Kirk T. New Zealand	1	
Knox College		1
Kansas State Agricultural College Kansas State Historical Society Keeler, E. W., San Francisco Keeler, James E. Kellogg, Prof. Martin Kentucky Agricultural Experiment Station Kirchhoff, Theodore, San Francisco Kirk, T., New Zealand Knox College Konigsberg Universität		56
		1
Lane Theological Seminary		1
Lawes, Sir J. Bennet, Rothamsted, England	1 9	
Lawrence Free Public Library		1
Lawson, Prof. A. C.	1	8
Layman, Joseph D., Class of 1888, U. C.	36	
Leander McCormick Observatory		4
Le Conte, Dr. Joseph		1 5
Lehigh University		2
Lake Forest University Lane Theological Seminary Larremore, Wilbur Lawes, Sir J. Bennet, Rothamsted, England Lawrence Free Public Library Lawson, Prof. A. C. Layman, Mrs. C. B. Layman, Joseph D., Class of 1888, U. C. Leander McCormick Observatory Le Conte, Dr. John Le Conte, Dr. Joseph Lehigh University Leiden Universiteit Leipsig Universität Leland Stanford, Jr., University Lemberg Universität Lemberg Universitetu Lengfeld, A. L., M.D., San Francisco	. 2	5 2 5 7 4 2 2 2
Leland Stanford, Jr., University		4
Lemberg Uniwersitetu		2
Lengfeld, A. L., M.D., San Francisco		.2

,	Books.	Pam- phlets.
Lezinsky, David L., Class of 1884		
Library Bureau, Boston Lick Observatory (besides 11 duplicates) Lieber Library (gift of Michael Reese) Lincoln University	1	
Lick Observatory (besides 11 duplicates)		79
Lincoln University	1	1
London Anti-Vivisection Society		10
Long Island Historical Society		1
London Anti-Vivísection Society Long Island Historical Society Loomis, Henry B., Seattle Los Angeles Public Library Los Angeles Superintendent of Schools Los Angeles University Louderbach, A. W., & Co. Loughridge. Dr. R. H. Louvain Université Luebbert, Wm., Class of 1892, U. C		1
Los Angeles Superintendent of Schools		3 1
Los Angeles University		î
Louderbach, A. W., & Co.		1
Loughridge. Dr. R. H.	7	14
Louvain Universite	ļ	17
Lukens, G. R., Class of 1889, U. C.		i
Lunds Universitet		$\frac{1}{2}$
Luther College		1
Lyon Université	4	15
Macalester College		
McKenna, Hon, Joseph	14	1
McLean, Rev. J. K., Oakland		5
Madison University		3 1 5 2 2
Madrid Universidad		2
Manhattan College	1	1
Marburg Universität  Maryland Agricultural College  Mason, Dr. B. F., San Leandro  Massachusetts Agricultural Society  Massachusetts Agricultural Society	8	145
Maryland Agricultural College		5
Mason, Dr. B. F., San Leandro	1	
Massachusetts Agricultural Society	1	10
Massachusetts Board of Education  Massachusetts Bureau of Statistics of Labor		
Massachusetts Institute of Technology	2	23
Massachusetts Institute of Technology Massachusetts State Bureau of Lunacy	1	
Melbourne Observatory	1	3
Melbourne University Miami University	2	
Michigan Mining School		1 9
Michigan State Agricultural College.		2 12
Michigan State Board of Agriculture	17	$\begin{array}{c} 2 \\ 1 \\ 1 \end{array}$
Miami University. Michigan Mining School Michigan State Agricultural College. Michigan State Board of Agriculture. Middlebury College Millan Regio Instituto Technico Superiore. Miller, Adolph C., Class of 1887, U. C. Miller, C. G., Chicago Mills College. Mills College. Mining Journal London		1
Millar Adolph C. Class of 1997 T. C.	1	1
Miller C. G. Chicago	i	
Mills College		2
Minneapolis Public Library Minnesota State Historical Society		6
Miss Lake's School San Francisco	ı	1
Missouri Agricultural College.		2
Missouri Agricultural College Missouri Botanical Garden	i	
Missouri State University  Montgomery, Z., Washington, D. C.  Montpellier Université		1
Montgomery, Z., Washington, D. C.		1 2 1
Mortill, Hon. I. S.		2
Moses Prof Remard	14	
Mount Saint Mary's College		i
Mount Union College.		1
Mount Saint Mary's College		1
Museum of Fine Arts, Doston		'
National Association of Wool Manufacturers		9
National Association of Wool Manufacturers		16
National Executive Silver Committee		16
National Executive Silver Committee Nebraska State Historical Society Neill, Edward D., St. Paul.		1
Neill, Edward D., St. Paul Nevada State Weather Service		1
Nevada Surveyor-General		1 2
Newark Free Public Library		1
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Newark Technical School.		1
Newberry Library		1
Newberry Library New England Historic Genealogical Society.		1
New Hampshire Agricultural College New Haven Free Public Library	1	2 2
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New Jersey Geological Survey New Jersey State Agricultural Experiment Station New York Academy of Sciences New York Board of Health New York Mercantile Library Association New York Metaprological Observatory	Z	9
New York Academy of Sciences.		. 7
New York Board of Health	1	12
New York Mercantile Library Association		.1
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North Carolina College		ī
Northwestern College Northwestern University, Evanston, Ill.		1
Northwestern University, Evanston, Ill.		2
Oakland "Evening Tribune"	1	
Oakland "Evening Tribune" Oakland Health Department		9
Oakland Public Library Oberlin College		· 4
Oberlin College		1
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Orden College		1
Ogden College Ohio Agricultural Experiment Station		9
Ohio Meteorological Bureau		5
Ohio Military Academy		1
Ohio University		1
Old Residents' Historical Association Lowell Mass		1
Olivet College		ī
O'Neill, Edmond, Class of 1879, U. C.		3
Ontario Fruit Growers' Association	1	
Orogon Agricultural Experiment Station	1	2
Orton, Gen. R. H.	2	*
Ottawa University		1
Ohio Meteorological Bureau Ohio Military Academy Ohio State University Ohio University Old Residents' Historical Association, Lowell, Mass. Olivet College. O'Neill, Edmond, Class of 1879, U. C. Ontario Fruit Growers' Association Orcutt, C. R., San Diego. Oregon Agricultural Experiment Station Orton, Gen. R. H. Ottawa University. Otterbein University		1
Pacific Coast Committee for Theosophic Work	4	
Pacific Coast Committee for Theosophic Work Pacific University, Oregon.		1
Paris Universite		
Patton, Mrs. Ellen, Kansas Payne, Dr. F. H. Peabody Institute	1	
Payne, Dr. F. H		1 1
Pennsylvania College		î
Pennsylvania Historical Society.	1	
Pennsylvania State College	1	5
Perkins, B. F., San Francisco		1
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Philadelphia Bureau of Water	î	
Philadelphia Library Company		j 8
Phillips, James M., Estate of Phillips Academy, Andover, Mass.	76	
Phillips Academy, Andover, Mass		1 1
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Pratapa Chandra Ray, Calcutta		}
Pratapa Chandra Ray, Calcutta Pratt Institute:		2
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Providence, R. I., Only Engineer		
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1	Books.	Pam- phlets.
Public Library of Brookline		
Public Library of Cincinnati Purdue University Agricultural Experiment Station		
Quebec Université Laval	.	
Racine College Randolph-Macon College Redwood Library and Athenæum Reeve, Mrs. C. G. J., London Rhode Island Historical Society Rhode Island School Commissioner Rhode Island State Agricultural School Richardson, Prof. George M		
Randolph-Macon College		ĺ
Reave Mrs C G I London		
Rhode Island Historical Society.	1	
Rhode Island School Commissioner	. 1	
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Ripley, Chauncy B.	•	
Ripon College		
Rising, Prof. W. B.		
Ritter, W. E., Class of 1888, U. C		
Roger Williams University		Ì
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Rome Regia Universita Romero, Don Matias, Mexico City Rose Polytechnic Institute		
Rose Polytechnic Institute		
Rosenthal, A. G., U. C.	2	
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Royal Society of Edinburgh	2	
Royal Society of London	3	
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Salem Public Library	1	
Salt Lake City "Herald"		ĺ
San Francisco "Alta California"	1	
San Francisco Board of Supervisors	1 2	
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San Francisco Odd Fellows' Library Association		
San Francisco Port Society Santa Barbara Society of Natural History		
Santa Clara College	·  <u>-</u> -	l
Santa Clara College "Saturday Globe," New York School of Expression	5	
Science Observer		i
Science Observer. Senger, Dr. J. H., Class of 1882, U. C.		
Shattuck School	-	1

	Books.	Pam- phlets.
Shedd I Herbert Providence R I	-	1
Shedd, J. Herbert, Providence, R. I. Shinn, Miss M. W., Class of 1830, U. C. Siena Universita Simpson College Smithsonian Institution Snow, R. W., Oakland Sommer, Adolph South Carolina Experiment Station South Dakota Agricultural College Southern Pacific Co. Southern University Spring Hill College Stanford, Hon. Leland State Agricultural and Mechanical College of Alabama State Agricultural and Mechanical College of Alabama State Agricultural College, Colorado State School of Mines, Colorado Stein, Leo D., U. C. Storr's School Agricultural Experiment Station Strasburg Universität. Stratton, Dr. C. C., Salem, Or. Stringham, Prof. Irving Sutro Library, San Francisco Swarthmore College Swift, Morrison I., Ashtabula, Ohio Syracuse University  Tahor College	22	822
Siena Universita		1
Simpson College		1
Snow, R. W., Oakland	9	9 1 2 1 2 5 1 1 2 1 6 1
Sommer, Adolph a rare newspaper and		2
South Carolina Experiment Station		1
South Dakota Agricultural College		2
Southern University		0
Spring Hill College		i
Stanford, Hon. Leland		2
State Agricultural and Mechanical College of Alabama		1
State Agricultural College, Colorado		8
Stein, Leo D. II. C.	9	_
Storr's School Agricultural Experiment Station		8
Strasburg Universität	3	25 1
Stratton, Dr. C. C., Salem, Or.		1
Stringnam, Prof. 1rving	0	4
Swarthmore College	1	i
Swift, Morrison I., Ashtabula, Ohio		2. 1
Syracuse University		1
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Tabor College		1 1 3 8 3
Technical Society of the Pacific Coast		3
Tennessee State Board of Health		8
Texas Agricultural Experiment Station		3
Texas Geological Survey	1	
Theological Seminary, Andover, Mass.		. 1
Tabor College Technical School of Cincinnati Technical Society of the Pacific Coast Tennessee State Board of Health Texas Agricultural Experiment Station Texas Geological Survey Theological Seminary, Andover, Mass. Thelogical Seminary, Columbia, S. C. Thiel College Three Rivers Public Library Toland, Mary B. M Torino Osservatorio Torino Universita Toulouse Université Trinity College Tuff's College Tuff's College Tulane University of Louisiana. Turner, Arthur C., Class of 1893, U. C. Turner, H. W., Washington		i
Three Rivers Public Library		ī
Toland, Mary B. M.	1	
Torino Usservatorio		1
Toulouse Université		1 1 2 2 1 1
Trinity College		$\bar{2}$
Tuft's College		1
Tulane University of Louisiana.		1
Turner, Artnur C., Class of 1895, U. C.	1	
Turner, II. W., Washington		-
Union Theological Seminary	<b></b> .	1
Union University		1
United States, various departments	158	237
University of Alabama		i
University of California	7	
University of California Athletic Association 3 medals		
University of California, Class of 1890		
University of California, Class of 1892	2	
University of California, Class of 18941 class pin		
University of California, President's office (besides 4 duplicates)		12
University of California, Recorder's office	3	15
University of Caninnati	3	i
University of Colorado		
University of Descret		1 3
University of Edinburgh	2	1
University of Georgia		1
University of Kangag	1	9
University of Michigan		3
University of Minnesota		1 9 3 3 2 1
Union Theological Seminary Union University United States, various departments University College, Toronto University of Alabama University of California University of California Athletic Association University of California, Class of 1890 University of California, Class of 1891 University of California, Class of 1891 University of California, Class of 1892 University of California, Class of 1892 University of California, President's office (besides 4 duplicates) University of California, Recorder's office University of California, Students' Coöperative Society University of Colorado University of Colorado University of Deseret University of Georgia University of Georgia University of Kansas University of Michigan University of Michigan University of Michigan University of Mississippi		1

### ANNUAL REPORT OF THE

	Books.	Pam- phlets.
Iniversity of Nashville		1
University of Nebraska		6
Iniversity of North Carolina		ì
Iniversity of North Carolina Iniversity of North Dakota		î
University of Oregon University of Pennsylvania University of Rochester		1 2 2 1
Iniversity of Pennsylvania		2
University of Rochester		1
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Iniversity of the South		1
Iniversity of the State of New York		18
Iniversity of Sydney	1	
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Iniversity of Vermont		9
Iniversity of Virginia		1
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Iniversity of wooster		
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Jrsinus College		)
Jrsinus College		
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Vassar College	1	:
Vassar College Vienna Akademie der Wissenschaften	1	
Vienna Universität		3
Vaite, Henry E., West Newton, Mass.		
Vashburn College		
Vashburn Observatory Vashington and Jefferson College		
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Vashington and Lee University Vashington University Vaterhouse, S., St. Louis		
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V neeler, H. A., St. Louis		
V heeler, Roscoe, Class of 1891, U. C.	1	
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Vilmington Institute		
Vittenberg College		
Voman's College of Baltimore		
Voman's Medical College of Pennsylvania		!
Vorcester Free Public Library		] ]
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Yale University	10	
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Goe Publishing Co.		

# LIST OF PRESENTS TO LIBRARY OF THE LICK OBSERVATORY FOR THE YEAR ENDING JUNE 30, 1891.

Presented By.	Books.	Pam- phlets.
Academy of Sciences, Bologna	1	<u>i</u>
Agamemnone, G.  Backlund, O.  Bakhuysen, H. G.	i	1
Bancroff Company Lefectro		1
Becker, Dr. George Belopalsky, A. 1 photo Bigelow, Prof. F. H. 1 photo Burnham, S. W. 1 lantern slide		
Charroppin, Rev. C. M. 2 photos		,
Colin, E		1
Denning, W. F. Depuy, A. B. Downing, A. M. W. Dunner, Prof. N. C. Dziobek, Dr. O.		2 2
Dunner, Prof. N. C. Dziobek, Dr. O.		1 1
Eastman, Professor  Ekama, C.  Elliot, Dr. A. H.	. 1	3
Espin, Rev. T. E.  Figel, Professor		1 9
Fryer, John	2	
Gautier, M. R Goode, Dr. G. Browne		1 3 1
Hahneman, M. Hall, Prof. A. Harkness, Prof. W.		1
Harkness, Prof. W. Holden, E. S. 5 photos, 1 map, 4 engravings Hydrographisches Amt., Berlin Hydrographic Office, Chile	9 1 1	101
Janssen, MCliché of the sun		
Kiaer, Dr. H. I.  Kloock, Dr. H.  Koukoly, Dr. N. Von	2	1 1 2
Langley, Prof. S. P.  Leuschner, A. O.  Liverpool Literary and Philosophical Society  Lohse, Dr. O.  Collection of paper on photography		1
Marth, A.  Maw, W. M		
Newbury, Prof. SpencerNegative plates Newton, Prof. H. A		

LIST OF PRESENTS TO LIBRARY OF THE LICK OBSERVATORY-Continued.

PRESENTED BY.	Books.	Pam- phlets.
Orndorf, W. R. Ounen, Professor		
Paris Observatory	10	6
Prestón, E. D		1
Rio Janeiro Observatory Royal Observatory of Greenwich Royal Society	2 59	i
Schiaparelli, Prof. G. V. Schorr, Dr. Richard Schwoerer, Emile. Smithsonian Institution. Stanford, Hon. Leland. Stone, Prof. O. Struve, Dr. Hermann	1	1 1
Tacchini, Prof. P. Todd, Prof. D. P. Tebbutt, John Terby, F. Turner, H. H.		11 3
Vogel, Prof. H. C.		1
Washburn Observatory Weinek, Prof. L. Wilson, H. C. Wolf, Max.		
Ximeniano Observatorio	1	·
Totals	108	224

The above list does not include volumes which are regularly sent to the Observatory in the way of exchange, etc. These are duly acknowledged in the Catalogue of the Library of the Lick Observatory, Part I, 1891. (See Report of the Solar Eclipse of December, 1889, page 1*.)

### THE MUSEUM OF THE UNIVERSITY.

J. J. RIVERS, Curator in Charge.

### MEMORANDA OF DONATIONS TO THE MUSEUM DURING 1890-91.

TO THE MUSEUM OF ETHNOLOGY.

Arnheim, Julius S., Steuart Street, San Francisco.—Presented a valuable group of four figures, carved in stone taken from a coral reef. It was wrought by the natives of one of the islands of the South Pacific.

Hay, W. G., Ex. '89.—A large skin canoe, or one-man kyack, from Cape Prince of Wales, Alaska; also, a canoe paddle, and some fishing gearing belonging to a kyack.

Rideout, John D., Class '90.—Shell money and beads from Indian mound, near Marysville, Cal.

Smyth, Mrs. W. H., Berkeley.—Ornamental carving on a pipe, worked in black slate by the natives of Queen Charlotte's Island.

Van Denburgh, Mrs. D., Los Gatos, Cal.—Rope made of sea grass by South Sea Islanders; also, a piece of ancient tappa cloth from Honolulu.

Wyckoff, Miss Cora, Oakland, Cal.—A valuable feather necklace, made from the breast feathers of the little bird of the Hawaiian Islands, called the Oo. The bird is rare, and has a few feathers of the desired color; the ornament is therefore within the reach of the few.

To the museum of zoölogy.

TO THE MUSEUM OF ZOÖLOGY.

ABBOTT, Mrs. N., Berkeley, Cal.—The following shells from the West Coast:

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Ocinebra lurida, Midd.
Tornatella punctocælata, Cpr.
Lazaria subquadrata, Cpr.
      Fusus geniculus, Cond.
Calliostoma costatum, Martyn.
Erato columbella, Mire.
Margarita pupilla, Gld.
Littorina scutellata, Gld.
       Leptothyra sanguinea, Cpr.
Phasinella pulloides, Cpr.
        Amycla carinata, var. Hindsii.
        Amycla carinata.
        Amycla gausipata, var. Californica, Gask.
Amycla gausipata, var. Canyornuu, vaca.
Drillia moesto, Cpr.
Nassa Cooperi, Fbs.
Amphissa corrugata, Roe.
Arnheim, Julius S., Steuart Street, San Francisco—
Cancellaria Crawfordiana, Dall. (M. S.), Drakes Bay.
Purpura crispata, from Kodiak.
Surcula Carpenteriana, Gabb., Drakes Bay.
Nassa Californiana, Conrad, Drakes Bay.
Clementia sub-diaphana, Cpr., Drakes Bay.
       Clementia sub-diaphana, Cpr., Drakes Bay.
Strongylocentrotus purpuratus, Stimp., Alaska.
Tellina venulosa, Kodiak.
Cardium corbis, Cardium blandum, Sitka.
```

Scabaria indianorum, Cp.

Nassa perpinguis, Margarita Bay.
Nassa fossata, Monterey Bay.
Cancellaria Crawfordiana is a new species, and Nassa Californiana was never noticed before in the living state, and was only known as a fossil of the Miocene period.
Both these species were obtained in Drakes Bay by dredging. Besides the above, Mr. Arnheim has presented to the Museum various specimens of marine animals of the classes Crustacea, Radiata, Mollusca, and Pices, and they were either from the waters around the Farallon Islands or from Drakes Bay.

Benson, Mr. West Berkeley, Cal.—Three eggs and embryos of the great skate, from the bay at West Berkeley; also, some insects.

Brandfree, T. S., Cal. Acad. of Sciences.—Specimen of Emys marmorata, Girard, from

Lake County. COUGHLAN, JOHN, Ex. '90 .- Several varieties of Tapes staminca, San Francisco Bay; also,

some other shells. DE PUE, H., Port Costa, Contra Costa County, Cal.—Some German carp. 1014

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Avicula furcata, Gld.

ELLIS, WILLIAM, Berkeley, Cal.—Specimen of the mole Scalops Californicus, Ayres, from the grounds of the U. C.

EXCHANGE, Yale University.—Specimens of Disconisca levis, from Callao, and Terebratulina septentrionalis, from Eastport, Maine.

EIGENMAN, MES. ROSA, San Diego, Cal.—Four egg cases of the shark Scylorhinus ventricosus, Garman.

EIGHNES, San Francisco,—Specimen of Latinus centus, Gray, from Panama, Rev. Fuchs, Charles, San Francisco.—Specimen of Latirus ceratus, Gray, from Panama Bay. Hay, W. G., Ex., 89.—A good skin of Putorius Kanesii, Baird, from Siberia; also, a human skull from Siberia, and numerous teeth of seals.

Joseph, Nathan, San Francisco.—Specimen of the great Rock crab, from New Cale-KNAPP, M. A., '87.—Example of the rock ptarmigan, from Douglas Island, Alaska; also, Macoma inconspicua, Sowby, from Douglas Island, Alaska.

Koebele, Albert, Alameda, Cal.—Skin of the little chief hare, Lagomys princeps, from Easton, Washington. LA MOTTE, GERTRUDE, Glen Ellen, Sonoma County, Cal.—A living specimen of Ambly-stoma mavortium Californiense, Cope., and six living examples of Emys marmorata, Girard. MORGAN, MISS JULIA, Class '94, Oakland, Cal.—A series of fine shells of Cypræ cervinetta, from Acapulco.

RAYMOND, W. J., Instructor, U. C.—Sets of the following mollusks: Melampus olivaceus, Cpr., San Diego, Cal. Monocerus lugubre, Sowby, Ensenada, L. C. Monocerus egonotum, Conr., Bolinas, Cal. Olivella Bætica, Cpr., Sitka. Purpura crispata, Northern var. Purpura crispata, Northern var.

Macoma secta, Bolinas Bay, Cal.

Planorbis subcrenatus, Cpr., var. disjectus, Cp., Tuolumne Meadows.

Mesodon armigerus, Ancy., Presidio, San Francisco.

Spherium Raymondi, J. G. C., Tuolumne County, Cal.

Chlorostoma gallina, Fbs., Cerros Island.

Macoma inquinata, Desh., Bolinas Bay.

Macoma inquinata, Desh., Fort Point, San Francisco.

Mytilus eddis, Linn., var. glomeratus, Gld., Point Lobos, San Francisco.

Reed, Miss Clara, Alameda, Cal.—A fine specimen of the great West Coast clam Glycimeris generosa, Gld., from Henderson Bay, Wash.

Smithsonian Institution.—A specimen of the rare volutoid shell, Scaphella sternsii, Dall., from the Aleutian Islands. from the Aleutian Islands.

SUTTON, DR. F. S., Class '76.—Eight specimens of Colcoptera from Panama, and one example each of Orthoptera from Panama and Salvador.

VAN DENBURGH, MRS. D., Los Gatos, Cal.—The following valuable shells:
Cypræa orantia, Linn., South Pacific.
Cypræa Lynx, Linn., East Indies.
Cypræa intermedia, Kizner, Waikiki.
Cypræa caurica, Linn., East Indies.
Cypræa caurica, Linn., Waikiki.
Cypræa crosa, Linn., Navigator Island.
Cypræa carneola. Linn., East Indies. from the Aleutian Islands. Cypræa carneola, Linn., East Indies. Cypræa isabella, Linn., East Indies. Cypræa isabella, Linn., East Indies.
Cypræa annulata, Gray, East Indies.
Cypræa monita, Linn., Pacific Ocean.
Cypræa helvola, Linn., Pacific Ocean.
Dolium perdix, Indo-Pacific.
Lingula hyans, Rio de Janeiro, Brazil.
Turritella goniostoma, Val.. Gulf of California.
Oliva erythrostoma, Linn., Mauritius.
Mitra Pontificalis, Linn., Tahiti.
Mitra Episcopalis, Linn., East Indies.
Natica melanostoma. Lan. Natica melanostoma, Lam. Natica mammilla, Linn., East Indies Polydonta tentorium, Linn., East Indies. Nerita polita. Natica Prichardi, Fbs., Gulf of California. Littorina conspersa, Honolulu. Purpura hippocastanum, Indo-Pacific. Ricinula albolabris, Honolulu. Listrum tuberculatum, Waikiki beach, Honolulu. Nassa hirta, Honolulu. Triton tuberosum, Lam., Pacific. Aplustrum aplustrie, L., Honolulu. Achatinella viridans, Migh., Honolulu. Cerithidea sacrata, Gld., California. Strombus lentigonotus, Gld. Strombus variabilis, Swainson.

Van Dyke, E. C., Class '93.—Specimens of Aplodon columbiana and Hyalina Breweri, both from Shasta district.

Wallace, F. S., Sumner, Kern County, Cal.—A good example of a newly described bat. Williams, Mrs. Burton, Los Angeles County, Cal.—The rare shells, Modiola fornicata, Cpr., and Periploma discus, Stearns, from San Pedro Bay.

#### TO THE MUSEUM OF PALEONTOLOGY.

ANDERSON, Dr. C. H., Santa Cruz, Cal.—Specimens of *Echinarachnius Brewerianus*, Rem., from Felton, Santa Cruz Mountains.

ARNHEIM, JULIUS S., Steuart Street, San Francisco.—Inoceramus Elliotti, from the Cre-

taceous of Nunamac Island, Alaska.

Van Denburgh, Mrs. D., Los Gatos.—Four vertebræ of fossil whale, dug from a cave in acliff at Los Gatos.

Wellendorff, Dr. L., Engineer of Alameda Water Company, at Berkeley, while improving the water supply on the Berkeley hills, unearthed and presented to the Museum certain remains of the elk (*Cervus Canadense*).

## FINANCIAL APPENDIX.

## STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE FISCAL YEAR ENDING JUNE 30, 1891.

evenue	\$221,968
O. Mills Endowment—interest	5,445
lichael Reese Library Fund—interest.	2,608
ichael Reese Library Fund—interest. dward Tompkins Endowment. dward Tompkins Endowment—interest. niversity Medal Fund—interest. ales from land grant of 150,000 acres.	12,790
dward Tompkins Endowment—Interest	491 203
niversity medai rund—interest	4 4 00 4
teta from tand grant of 100,000 acres	45
tudents' denositeChemical Laboratory	1,637
tudents' deposits—Mining Laboratory	290
tudents' deposits—Physical Laboratory	265
ales from land grant of 150,000 acres tate fees. tudents' deposits—Chemical Laboratory tudents' deposits—Mining Laboratory tudents' deposits—Physical Laboratory rom Treasurer of United States, account of Agricultural Experiment Station Fund rom Treasurer of United States, account of Morrill College Aid Fund xcess payments ioche Donation—interest ibrary fines (ilitary Department	
tion Fund	15,000
rom Treasurer of United States, account of Morrill College Aid Fund	15,000
xcess payments	26
ioche Donation—interest	138
ibrary fines	2
ilitary Department.  Torace Davis—Contingent Fund.	200
torace Davis—Contingent Fund	200 887
erman Savings and Loan Society [umboldt Savings and Loan Society an Francisco Savings Union	157
an Kranciaco Savinos IInion	30,920
ecurity Savings Bank	27,896
nion Sayings Bank of Oakland	28,698
ecurity Savings Bank Inion Savings Bank of Oakland akland Bank of Savings	383
ills receivable	105,646
tate Treasurer—redeemed bondsash balance on hand June 30, 1890	76,500
ash balance on hand June 30, 1890	82,014
DISBURSEMENTS.	\$643,509
sills receivable.  b. O. Mills Endowment—salary of professor.  lichael Reese Library Fund  dward Tompkins Endowment  iniversity Medal Fund	\$141,500
O. Mills Endowment—salary of professor	3,999
lichael Reese Library Fund	3,846
dward Tompkins Endowment	´ 8
niversity Medal Fund	250
acess payments	4.4.67
tate fees	. 99
oland Medical College	97
themical Laboratory building Suilding for combustibles C. W. Hilgard—Contingent Fund Sichard Gird—Contingent Fund	56,031
W Hiland Contingent Fund	1,525 50
ichard Gird — Contingent Fund	150
alaries	142,118
dministration	14.515
college of A griculture	8 564
college of Chemistry	5,051
College of Civil Engineering	271
ollege of Chemistry. college of Civil Engineering college of Mechanics	631
ollege of Mining	790
College of Mechanics College of Mining Department of Biology Department of Botany Department of Lick Observatory Department of Military Science Department of Mineralogy Department of Physics Department of Physical Culture	267
Department of Botany	680
Department of Military Spianos	6,922 553
Pepartment of Mintary Science	258
Department of Emeralogy	1,667
Department of Physical Culture	1,435
ibrary	2,102
Auseum	686
Iniversity site improvement	13,014
Iniversity Printing Office	343
gricultural Experiment Stations	10,220
Jniversity Printing Office gricultural Experiment Stations forrill College Aid Fund ash balance on hand June 30, 1891	2,435
	<b>218,96</b> 0
ash balance on hand June 30, 1891	

### TRIAL BALANCE-JUNE 30, 1891.

	Dr.	Cr.
Agricultural Experiment Stations  Buildings		\$923 39
Buildings	\$483,607 65	
Building Fund—from one cent tax		106,000 00
Rills receivable	1 888 000 00	
Cash—Louis Sloss, Treasurer Consolidated Perpetual Endowment Fund D. O. Mills Endowment	218,960 21	
Consolidated Perpetual Endowment Fund		1,749,063 80
D. O. Mills Endowment		93,367 69
Inniama kund	l .	ווא האי
Edward Tompkins Endowment  Excess payments on minimum lands  Excess payments due United States		17,141 76
Excess payments on minimum lands		9,496 99
Excess payments due United States		4,028 92
German Library Fund German Savings and Loan Society		515 11
German Savings and Loan Society	515 11	
Lick Observatory Fund Oakland Bank of Savings		90,000 00
Oakland Bank of Savings	7.613 45	
F. L. A. Pioche Donation  Revenue account		2,292 70
Revenue account		51,377 71
Reese Library Fund		53,112 06
Reese Library Fund		1,650 26
Students' deposits State Treasurer State fees	991,000,00	0,020 00
State fees	002,000	35 00
San Francisco Savings Union	9,496 99	
State fees San Francisco Savings Union Security Savings Bank Toland Medical College University Medal Fund	6,075 38	
Toland Medical College	0,0.0	199 01
University Medal Fund		3,268 22
Union Savings Bank of Oakland	7.074.57	1
Chemical Laboratory building	74 271 64	
Morrill College Aid Fund		
Morrill College Aid Fund Bonté, J. H. C., Secretary—Contingent Fund	486 37	,
Caminetti, A.—Contingent Fund	150 00	
Gird Richard Patron South Cal Station—Contingent Fund	150 00	
Holden, E. S., Director Lick Observatory—Contingent Fund Hilgard, E. W., Director Ag. Ex. Stations—Cont. Fund	500 00	
Hilgard E W Director Ag Ex Stations_Cont Fund	200 00	
Moore R F Patron Tulare Station—Contingent Fund	150 00	
Moore, B. F., Patron Tulare Station—Contingent Fund Salaries, expenses, and receipts to January, 1889	100 00	565,150 56
State of California, diverted funds	79 500 00	500,100 00
Webster, J. V., Patron Paso Robles Station—Cont. Fund	150 00	
Wenner, J. V., Fairon Fan Itonica Branton-Cont. Fund	100 00	
	\$2,766,051 37	\$2,766,051 37
	φ±,100,001 31	φ±,100,001 01

### STATEMENT OF BONDS AND MORTGAGES-JUNE 30, 1891.

DESCRIPTION.	Date of Maturity.	Rate of Interest.	Par Value.	Annual Interest.
Bonds.				
State Capitol	Jan. 2, 1893	6	\$610,000 00	\$36,600 00
State of California	Jan. 2, 1893	6	141,000 00	8,460 00
City and County of San Francisco—	Jun. 2, 100011	Ĭ	112,000 00	0,100 00
School bonds	July 1, 1894	6	30,000 00	1,800 00
Park and Avenue	Jan. 1, 1898	6	50,000 00	3,000 00
Park Improvement.	April 1, 1904	6	1,000 00	60 00
Dupont Street	July 1, 1897		20,000 00	
Montgomery Avenue	Jan. 1, 1903		22,000 00	
Alameda School	Sept. 4, 1898	6	4,000 00	240 00
Marin County	May 5, 1896	7	50,000 00	3,500 00
Tehama County	July 2, 1903	5	29,500 00	1,475 00
Fresno County	Jan. 1, 1898	7	12,500 00	875 00
Plumas County	Oct. 3, 1901	6	6,000 00	360 00
Kern County	Nov. 1, 1900	7	15,000 00	1,050 00
Total invested in bonds	,		\$991,000 00	\$57, <b>42</b> 0 00
Diverted funds		6	\$79,750 00	\$4,785 00
Mortgages.	,			
Oakland real estate			\$211,000 00	\$13,972 80
San Francisco real estate			390,000 00	20,949 96
San Francisco real estate Merced County real estate			47,000 00	3,290 04
Stockton real estate San José real estate			25,000 00	1,656 25
San José real estate			15,000 00	1,050 00
Alameda real estate  Marin County real estate			80,000 00	5,954 88
Marin County real estate			50,000 00	3,000 00
Tehama County real estate			<b>25,00</b> 0 00	1,750 00
Solano County real estate			23,000 00	1,610 00
Mendocino County real estate			20,000 00	1,400 00
Total invested in mortgages			\$886,000 00	\$54,633 93
RECAPITULATION.				
Total invested in bonds			\$991,000 00	\$57,420 00
Total invested in mortgages			886,000 00	54,633 93
Total invested in bonds Total invested in mortgages Diverted funds			79,750 00	4,785 00
Total			\$1,956,750 00	\$116,838 93

### SEGREGATION OF BONDS AND MORTGAGES.

	Par Value.	Interest.
Consolidated Perpetual Endowment Fund—diverted funds  Mortgages Bonds Lick Observatory Fund—bonds Mortgages Michael Reese Library Fund—mortgages D. O. Mills Endowment—mortgages.  Medal Fund—mortgages. Edward Tompkins Endowment—mortgages. Pioche Donation Fund—mortgages	737,694 73 903,000 00 88,000 00 2,000 00 40,000 76 87,073 66 8,000 00	\$4,785 00 45,477 68 52,435 0. 4,985 0. 120 00 2,487 48 5,267 04 196 80 938 04 146 88

## STATE TAX OF ONE CENT ON EVERY \$100 VALUATION—FOR THE YEAR ENDING JUNE 30, 1891.

October 31, 1890—Controller's warrant December 31, 1890—Controller's warrant March 31, 1891—Controller's warrant	463 41
	\$102,434 52

Dr.	UNIV	ERSITY	MEDAL 1	FUND.	Cr	•
1874.			1873.			_
July 30	To cash - Medal to F.		Mar. 13.	By donations	\$2,383	в
Oct. 10	Otis	<b>\$</b> 125 <b>0</b> 0	June 30.		56	
JC6. 10	M. Whitworth	125 00	Dec. 31_ 1874.	By interest	121	4
Oct. 10	To cash — Medal to F.		June 30.	By interest	126	
1875.	H. Whitworth.	125 00	Dec. 31. 1875.	By interest	115	7
July 16	To cash-Medal to T.			By interest	114	4
1876.	F. Barry	125 00	June 30. Dec. 31.	By interest	114	
Nov. 30.	To cash—Medal to. D.		1876. June 30.	By interest	119	9
	B. Huntley	125 00	1877.	Dy meetest and	110	u
Nov. 30	To cash—Medal to F.	105.00	Jan. 31.	By interest	115	
1878.	L. Button	125 00	July 30. 1878.	By interest	112	4
Oct. 31	To cash — Medal to		Jan. 31. July 31.	By interest	106	
Oct. 31	Theodore Gray To cash—Medal to Jos.	125 00	July 31. 1879.	By interest	103	7
	Hutchinson	128 50	Jan. 31.	By interest	98	5
1879.			July 31.	By interest	100	
Aug. 31	To cash—Medal to Fre- mont Morse	128 50	1880. Jan. 31.	By interest	92	0
1880.	mont morse	120 00	July 31.	By interest	81	
July 31	To cash - Medal to	400 70	1881.			
1883.	Mary Hawley	128 50	Jan. 31. July 31.	By interest	80 70	
July 31	To cash—Medal to W.		1882.	*	10	U
1884.	W. Deamer	125 00	Jan. 30.	By interest	71	
Aug. 30	To cash—Medal to C.	<u> </u>	July 31.	By interest	<b>6</b> 5	5
1885.	A. Ramm	125 00	Jan. 31.	By interest	67	0
	Ma anak Madal ta C		July 31.	By interest	65	5
July 14	To cash—Medal to C. B. Wakefield	125 00	1884. Jan. 31.	By interest	64	4
1886.			July 31.	By interest	65	
July 31	To cash—Medal to Frank Fisher	125 00	1885. Jan. 31.	By interest	25	,
1887.	Flank Fisher	120 00	July 31.	By interest	65 68	
July 31	To cash - Medal to		1886.			
1889.	Jacob Samuels	125 00	Jan. 31. July 31.	By interest	67 66	
May 15	To cash-Medal to J.		1887.	"	00	-
1889.	E. Beard	125 00	Feb. 28. July 31.	By interest	64	
June 30	To cash-Medal to H.		1888.	By interest	66	1
1890.	C. Moffitt	125 00	June 30.	By interest	142	в
	The seek Madel 44 O		1889.	i	110	
July 9	To cash—Medal to O. K. McMurray	125 00	Jan. 1. June 30.	By interest	116 93	
1891.	· ·		1890.	"		
June 30 1891.	To medal	125 00	June 30.		181	
June 30	To balance	3,268 22	June 30. June 30.	By Union Savings Bank By Union Savings Bank		6
		,	1891.		***	
			June 30. June 30.	By interest	203	6
			June 30.	By Union Savings Bank		6
		0E 0E0 E0			<b>AF 050</b>	_
		\$5,653 72	ll .	1	\$5,653	7

Dr:	EDWARD TOMPKINS	ENDOW	MENT F	UND(RENT Account).	Cr.
1874.			1872.		
Jan. 2 Aug. 14		\$148 60 100 00	June 18. 1873.	By cash	<b>\$100 00</b>
1887.	1	100 00	Mar. 13.	By cash	100 00
Nov. 10	To cash	<b>75 50</b>	June 30.	By interest	2 35
1888. Aug. 31	To cash	21 00	Dec. 31. 1874.	By interest	5 04
1889.			June 30.		6 08
Jan. 10 1890.	To cash	4 20	Aug. 19. Nov. 14.	By cash	100 00
Nov. 12 1891.	To cash	7 15	Dec. 31. 1875.		100 00 9 27
Jan. 14.	To cash	1 00	June 30. Dec. 11.	By interest	15 22 125 00
			1876. June 30.	By interest	22 66
			Dec. 18. 1877.	By cash	125 00
			Jan. 31_		39 50
			1878.	By interest	29 03
	1		Jan. 81.		28 64
	1		July 81.	By cash By interest	125 00 30 00
			1879. Jan. 31.	By interest	32 57
			May 31. July 31.	By cash By interest	125 00
			July 31. 1880.	By interest	34 14
			Jan. 31.	By interest	36 69
			June 30.	By cash	125 00
			1881.	By interest	32 55
			Jan. 31.		
			July 31. July 31.		32 63 175 00
			1882.	•	
			Jan. 31.	By interest	
			Jan. 31. July 31.	By cash By interest	175 00 37 56
			_ 1883.	ľ	
			Jan. 31. Jan. 31.	By interest	39 69 175 00
			July 31.	By interest	41 93
			1884. Jan. 81.	By interest	42 80
			Feb. 29.		175 00
			July 31. 1885.	By interest	46 45
			Jan. 31.	By interest	48 71
			Mar. 31.	By cash	175 00
			July 31. Oct. 31.	By interest	53 79 200 00
			1886.		i
			Jan. 31. July 31. 1887.	By interest	58 44 60 24
			Feb. 28.	By cash By interest	261 98 66 87
			Jan. 31.	By interest	68 30
			Feb. 1.	By cash	15 17
			Mar. 1. April 1.	By cash	15 17 15 17
			May 1.	By cash	15 17
	1		June 1.	By cash	15 17
			July 1. July 1.	By cash	15 17 23 91
			Aug. 1.	By cash	15 17
	Amount carried for-		Sept. 1.	By cash	15 17
	ward	\$357 45		ward	\$3,502 67

Dr.	EDWARD TOMPKINS END	OWMENT F	und (Ren	T Account)—Continued.	Cr.
1891.	Edward Tompkins End Amount brought forward To balance	\$357 <b>4</b> 5	1888.  Oct. 1. Nov. 1. Dec. 5. Dec. 5. Dec. 31. 1889. Jan. 1. Feb. 1. May 1. May 1. June 1. June 1. June 1. June 31. Sept. 30. Oct. 31. Nov. 30. Dec. 31. Dec. 31.	Amount brought for-	\$3,502 67 15 17 15 17 15 10 15 17 15 17 15 17 15 17 15 17 15 17 14 32 15 17 16 17 20 70 8 62 20 70 8 62 3 54 4 65
•			Mar. 31. April 30. May 31. June 30. June 30. July 31.	By cash By cash By cash By cash By Union Savings Bank By Cash	3 54 3 54 3 54 3 54 4 78 3 54 3 54
			Sept. 30. Oct. 31. Nov. 30. Dec. 30. Dec. 30.	By cash By cash By cash By cash By Union Savings Bank	8 54 3 54 3 54 8 54 4 91
			Jan. 31. Feb. 28. Mar. 31. April 30. May 30. June 30. June 30.	By cash By cash By cash By cash By cash By cash By cash By cash By cash	3 54 3 54 58 68 8 54 8 54 60 23 5 04
	Total	\$4,371 71		Total	\$4,371 71

### DISBURSEMENTS FOR THE YEAR ENDING JUNE 30, 1891.

### APPENDIX No. 1-Salaries.

College of Agriculture	B13.441 39
College of Chemistry	12,506 05
College of Civil Engineering	12,001 72
College of Letters	28 681 12
College of Chemistry College of Civil Engineering College of Letters College of Mechanics	19 909 45
College of Mining	11 050 97
College of Mining	11,200 57
College of Mining Department of Lick Observatory Department of Physical Culture	17,500 38
Department of Physical Culture.	2,499 96
Library	8.600 00
Department of Physical Culture Library Museum Administration University Printing Office Agricultural Experiment Stations University Site Improvements Morrill College Aid Fund	1,500 00
Administration	19,895 06 720 00
University Printing Office	720 00
Agricultural Experiment Stations	5,350 86
Agricultural Experiment Stations	362 92
University Site Improvements	
Morrill College Aid Fund	<b>831</b> 86
\$	142,950 14
APPENDIX No. 2 A—Administration—Fuel.	<del></del>
Fifty tons Wellington coal—Renton Coal Co.  Thirteen tons Anthracite coal—Renton Coal Co.  One hundred and forty-five grain sacks—Renton Coal Co.	\$701 40
Thirteen tons Anthracite coal—Renton Coal Co	107 70
One hundred and fasty five grain sacks. Penton Coal Co.	107 70 7 35
Thirty nine and forty-five grain sacks—Reliton Coal Co.	2 00
Thirty-nine gunnie sacks—Renton Coal Co	3 90
	<b>\$820 35</b>
APPENDIX No. 2 B—Administration—Equipment and Repairs.	
One rack for hauling chairs—Nelson & McLellan	\$14 00
Painting building—George C. Gottung	660 00
Reneiring roof of Library building W R Glenn	75 00
Denoising blockboards W. H. Andrews & Co.	
Repairing blackboards—W. H. Andrews & Co.	350 00
Painting building—George C. Gottung Repairing roof of Library building—W. B. Glenn Repairing blackboards—W. H. Andrews & Co. Repairing blackboards—W. H. Andrews & Co.	32 00
Painting buildings—George C. Gottung	<b>450 00</b>
Twenty dozen pairs 2-inch iron butts—Savage Bros.	5 50
Two gross hat hooks—Savage Bros.	2 75
One gross porcelain knobs—Savage Bros.	1 50
One gross jananed buttons	1 00
Twenty dozen pairs 2-inch iron butts—Savage Bros. Two gross hat hooks—Savage Bros. One gross porcelain knobs—Savage Bros. One gross japanned buttons Thirty-six chairs—California Furniture Co.	81 00
Denomina of Take I Manage	
Repairing roof—John J. Menges	12 00
Two pounds solder—John J. Menges	40
One sheet tin—John J. Menges	10
Lettering office door—J. A. Johnson	6 00
Labor for month of July—John Davis	54 00
Five hundred feet 3x4 redwood—Henry W. Taylor	10 00
Five hundred feet 1x6 redwood—Henry W Taylor	
Five hundred feet 2v4 pine Henry W Taylor	20 00
Nine hundred and fourty sight foot forth medward Henny W Taylor	
Pine handled and forty-eight feet 2x12 fed wood—frenty W. Taylor	36 20
rive nundred feet \$x12 redwood—Henry W. Taylor)	40.05
Mill work—Henry W. Taylor.	10 25
Cartage—Henry W. Taylor	2 00
Five hundred feet 1x3 redwood—Henry W. Taylor	25 00
Five hundred feet 1x12 redwood—Henry W. Taylor	20 00
One thousand and fifty-two feet 2x12 redwood—Henry W. Taylor	26 30
Five hundred feet 1x3 nine_Henry W Taylor	12 50
One thousand foot 1x4 T and G pine Honey W Taylor	34 00
The broken and the tax 1, and 0, pine—Henry W. Taylor	9 00
Three numbers leet 2x5 1, and G. pine—Henry W. Taylor	6 00
Five hundred feet 1x4 T. and G. and B. redwood—Henry W. Taylor	17 00
Labor in North Hall—J. M. McNamara	11 35
Seventy-five pounds 1½-inch lead pipe—J. M. McNamara	7 00
Twenty-four feet 3-inch galvanized pipe—J. M. McNamara	2 40
Five \( \frac{2}{2} - \text{inch fittings} = J. \text{ M. McNamara} \)	50
Four pounds solder—I. M. McNamara	1 00
Lining sink I M MoNamara	6 00
Two less feet 2 inch enivel med leader I M MeNenne	1 80
Twelve reet 5-inch spiral gas leader—J. M. McNamara	1 00
repairing pasin—J. M. McNamara	1 00
Repairing roof—John J. Menges Two pounds solder—John J. Menges One sheet tin—John J. Menges Lettering office door—J. A. Johnson Labor for month of July—John Davis Five hundred feet 3x4 redwood—Henry W. Taylor Five hundred feet 1x6 redwood—Henry W. Taylor Five hundred feet 2x4 pine—Henry W. Taylor Sine hundred and forty-eight feet 2x12 redwood—Henry W. Taylor Five hundred feet ½x12 redwood—Henry W. Taylor Cartage—Henry W. Taylor Five hundred feet 1x3 redwood—Henry W. Taylor Five hundred feet 1x3 redwood—Henry W. Taylor Five hundred feet 1x12 redwood—Henry W. Taylor Five hundred feet 1x3 redwood—Henry W. Taylor One thousand and fifty-two feet 2x12 redwood—Henry W. Taylor Five hundred feet 1x4 T. and G. pine—Henry W. Taylor One thousand feet 1x4 T. and G. pine—Henry W. Taylor Three hundred feet 1x4 T. and G. pine—Henry W. Taylor Five hundred feet 1x4 T. and G. pine—Henry W. Taylor Labor in North Hall—J. M. McNamara Seventy-five pounds 1½-inch lead pipe—J. M. McNamara Four pounds solder—J. M. McNamara Four pounds solder—J. M. McNamara Five ¾-inch fittings—J. M. McNamara Twelve feet 3-inch spiral gas leader—J. M. McNamara Repairing basin—J. M. McNamara Repairing basin—J. M. McNamara Labor in North Hall—J. M. McNamara Labor in North Hall—J. M. McNamara	95
Labor in North Hall—J. M. McNamara	
Twenty feet 2-inch cast-iron pipe—J. M. McNamara	2 00
Branch and bend—J. M. McNamara	1 05
One globe valve, 1x12—I. M. McNamara:	1 95
Thirty-five pounds 11-inch lead nine_I W McNamara	3 50
Cone sack charcoal—J. M. McNamara.  Labor in North Hall—J. M. McNamara.  Twenty feet 2-inch cast-iron pipe—J. M. McNamara.  Branch and bend—J. M. McNamara.  One globe valve, 1x13—J. M. McNamara.  Thirty-five pounds 12-inch lead pipe—J. M. McNamara.  Seven pounds solder—J. M. McNamara.	
	1 75
beven pounds solder—9. Id. Methamata	1 75

Two by two-inch brass ferrules—J. M. McNamara	\$0 35
One sack charcoal—J. M. McNamara	95
Cement—J. M. McNamara	50 1 10
One 1½-inch trap	50
Painting buildings—Geo. C. Gottung	161 25
Painting buildings—Geo. C. Gottung. Sixty-six yards Brussels carpet—Jos. Fredericks & Co. Thirty-three and one third yards Brussels carpet—Jos. Fredericks & Co. Six yards Brussels carpet—Jos. Fredericks & Co. Two oak table desks—Jos. Fredericks & Co. Twenty arm chairs, in leather—Jos. Fredericks & Co.	99 00
Thirty-three and one third yards Brussels carpet—Jos. Fredericks & Co	50 00
Six yards Brussels carpet—Jos. Fredericks & Co.	9 00
Twenty arm chairs in leather—Ios Fredericks & Co.	70 00 210 00
Ten oak tables—Geo. H. Fuller	95 00
One oak chair—Geo. H. Fuller	10 00
One hat rack—Geo. H. Fuller	10 00
One bookcase—Geo. H. Fuller One half dozen cuspidors—Payot, Upham & Co. Painting engine house and boiler house—Geo. C. Gottung	20 00
Painting angine house and holler house. Goo C. Cottung	40 00
Painting agricultural building—Geo. C. Gottung	100 00
Painting observatory—Geo. C. Gottung	75 00
Painting agricultural building—Geo. C. Gottung Painting observatory—Geo. C. Gottung Painting horse shed—Geo. C. Gottung	35 00
Painting lockers, etc.—Geo. C. Gottung.  Repairing chimneys, South Hall—Geo. C. Gottung.  Material for eighty new lockers—Niehaus Bros. & Co.	54 90
Metarial for eighty new lockers. Nichers Prog. & Co.	5 00
Twenty feet 3x4 gutters—Niehaus Bros. & Co.	118 00 1 20
Crown molding—Niehaus Bros. & Co.	40
Crown molding—Niehaus Bros. & Co. Fifty pounds putty—E. G. Buswell & Co.	2 50
Two rolls border—H. Richards	75
Two rolls border—H. Richards One yard felt—W. & J. Sloane & Co. Five yards gimp—W. & J. Sloane & Co.	1 25
One dozen locks—Savage Bros.	25 3 00
One lock—Savage Bros.	15
One lock—Savage Bros. One brush—E. G. Buswell & Co.	50
Moving stove—J. M. McNamara	2 50
Zinc for stove—J. M. McNamara Damper for stove—J. M. McNamara	1 75
Damper for stove—J. M. McNamara	25
Zinc flashing—J. M. McNamara Isinglass—J. M. McNamara One galvanized drum—J. M. McNamara	1 00 25
One galvanized drum—J. M. McNamara	3 80
Labor—John Davis  Expressage—Patterson & Co. One zinc oil can—The Samuel Hill Co.	52 00
Expressage—Patterson & Co.	9 25
One zinc oil can—The Samuel Hill Co.	20
Plastering in North Hall—H. L. Whitney Four thousand cubic feet gas—Oakland Gas Co. Sixty perforated chair seats—R. F. Osborn & Co.	30 00 10 00
Sixty perforated chair seats—R. F. Osborn & Co.	14 00
Kalsomining North Hall—C: K Klitherford	158 75
Oiling state on South Hall—Geo. C. Gottung  Three hundred and thirty yards cocoa matting—McGovern & Cahill  One hundred and fifteen yards cocoa matting—McGovern & Cahill  Two marble basins, waste pipe, and faucets—J. M. McNamara.  Sixteen feet stove-pipe—M. De La Montanya	30 00
Three hundred and thirty yards cocoa matting—McGovern & Cahill	222 75
Two marble begins weste nine and forests—I M McNamara	77 63 40 00
Sixteen feet stove-pipe—M. De La Montanya.	5 60
Eight feet stove-pipe—M. De La Montanya.  Four corrugated elbows—M. De La Montanya.	2 40
Four corrugated elbows—M. De La Montanya.	3 00
One corrugated elbow—M. De La Montanya	65
One damper—M. De La Montanya One half day's labor—M. De La Montanya	25 3 00
Labor John Davis	52 00
One oak desk—Geo. H. Fuller	60 00
One oak desk—Geo. H. Fuller One thousand feet redwood—Henry W. Taylor Eight thousand shingles—Henry W. Taylor One thousand feet redwood—Henry W. Taylor	20 00
Eight thousand shingles—Henry W. Taylor.	18 00
One inkstand—Samuel Carson————————————————————————————————————	20 00
Painting buildings—Geo. C. Gottung	1 50 623 75
Picture molding—Niehaus Bros. & Co.	3 50
Two washstands—Niehaus Bros. & Co	6 50
One pulley—Savage Bros.	. 10
Sash cord—Savage Bros.	25
One dozen staples—Savage Bros. One half dozen screw eyes—Savage Bros.	10 05
One dozen packages matches—J. McClain	50
One dozen and I-inch caps—J. M. McNamara	50
Two spools copper wire—Savage Bros.	1 00
Molding hooks—Savage Bros.	50
One jug and glass—Fred. Lautzen	500 00
Labor for month of October—James Tait	54 00
One bronze lock—Dunham, Carrigan & Hayden Co.	4 60

One pair butts—Dunham Carrigan & Hayden Co	\$2 25
One pair butts—Dunham, Carrigan & Hayden Co.  Three dozen cup locks—Dunham, Carrigan & Hayden Co.	18 00
One dozen Vole lotake Dunham, Carrigan & Hayden Co.	
One dozen Yale latches—Dunham, Carrigan & Hayden Co.	22 50
Nine dozen key blanks—Dunnam, Carrigan & Hayden Co	4 50
Nine dozen key blanks—Dunham, Carrigan & Hayden Co. One Empire ladder, 10-foot—G. W. Armes & Co. One dozen No. 2 Excelsior brooms—G. W. Armes & Co.	3 50
One dozen No. 2 Excelsior brooms—G. W. Armes & Co.	2 55
One dozen floor brushes—G. W. Armes & Co.	12 75
One dozen dust brushes—G. W. Armes & Co.	8 08
One half dozen dustnans—G W Armes & Co	60
One half dozen fire shovels. G. W. Armes & Co.	60
One dozen No. 2 Excessor brooms—G. W. Armes & Co. One dozen dozen brushes—G. W. Armes & Co. One half dozen dust brushes—G. W. Armes & Co. One half dozen dustpans—G. W. Armes & Co. One half dozen fire shovels—G. W. Armes & Co. One dozen galvanized coal hods—G. W. Armes & Co. One dozen turkey dusters—G. W. Armes & Co. Forty pounds white Castile soap—G. W. Armes & Co. One dozen galvanized iron pails—G. W. Armes & Co. One dozen matches—G. W. Armes & Co.	
One dozen garvanized coar nods—G. W. Armes & Co.	4 50
One dozen turkey dusters—G. W. Armes & Co.	6 80
Forty pounds white Castile soap—G. W. Armes & Co.	3 70
One dozen galvanized iron pails—G. W. Armes & Co.	4 15
One can matches—G. W. Armes & Co. Six sponges—G. W. Armes & Co. One No. 20 Bradford stove—M. De La Montanya Eight joints stove-pipe—M. De La Montanya  The company of the M. De La Montanya	1 75
Six spanges—G W Armes & Co	100
One No. 90 Bredford store M. De Le Montenere	16 00
One No. 20 Disarror since M. De La Montanya	
Eight joints stove-pipe—M. De La Montanya	2 40
Two corrugated elbows—M. De La Montanya	1 30
Two corrugated elbows—M. De La Montanya One collar and damper—M. De La Montanya One half sheet zinc—M. De La Montanya	35
One half sheet zinc—M. De La Montanya	75
Labor and cartage—M. De La Montanya Two cupboard catches—Savage Bros. Four pairs butts—Savage Bros. Three gallons varnish—E. G. Buswell & Co. Two thousand five hundred cubb feet gas—Oakland Gas Co.	75 3 00
The and carbage—II. De la Nontanya	3 00
Two cuppoard catches—Savage Bros.	20
Four pairs butts—Savage Bros.	80
Three gallons varnish—E. G. Buswell & Co	12 00
Two thousand five hundred cubic feet gas—Oakland Gas Co.	6 25
Five oak Vienna chairs—Joseph Fredericks & Co. Oiling and whitewashing brick on new Chemical Laboratory—Geo. C. Gottung. Twenty-four pounds lead pipe—J. M. McNamara One g-inch plain bibb—J. M. McNamara Ten feet 2-inch galvanized pipe—J. M. McNamara	12 50
Oiling and whitewashing brick on new Chemical Leboratory Goo C. Gottung	240 00
Two transports for new dalling bick of new Chemical Laboratory—Geo. C. Gottung.	
1 wenty-lour pounds lead pipe—J. M. McNamara	2 40
One 3-inch plain bibbJ. M. McNamara	1 25
Ten feet 2-inch galvanized pipe—J. M. McNamara	1 00
Solder and coal—J. M. McNamara	1 00
Solder and coal—J. M. McNamara Labor on same—J. M. McNamara	3 35
One chair cushion—California Furniture Co	6 00
One Clark Cushon—Camorina Furniture Co.	
One s-inch hinge, hasp, and screws—A. Erlandsen	15
One dozen key blanks—Dunnam, Carrigan & Hayden Co	1 80
Three gross screw hooks—Dunham, Carrigan & Hayden Co.	1 44
One gross washers for spindle—Dunham, Carrigan & Hayden Co.	15
Labor on same—J. M. McNamara One chair cushion—California Furniture Co. One 8-inch hinge, hasp, and screws—A. Erlandsen. One dozen key blanks—Dunham, Carrigan & Hayden Co. Three gross screw hooks—Dunham, Carrigan & Hayden Co. One gross washers for spindle—Dunham, Carrigan & Hayden Co. One gross knob screws—Dunham, Carrigan & Hayden Co. One gross blued screws—Dunham, Carrigan & Hayden Co.	60
One gross blued screws—Dunham, Carrigan & Hayden Co. One half dozen spindles—Dunham, Carrigan & Hayden Co. Repairing door check—Frank D. Morrill Repairing three shower baths in Gymnasium, and material—J. M. McNamara. Repairing pipe in South Hall—J. M. McNamara.	45
One helf dozen grindler Dunham, Carriagn & Hayden Co.	
One nan dozen spindles—Dunnam, Carrigan & Hayden Co.	16
Repairing door check—Frank D. Morrill	1 50
Repairing three shower baths in Gymnasium, and material—J. M. McNamara	4 50
Repairing pipe in South Hall—J. M. McNamara	3 00
Two terra-cotta thimbles—Savage Bros. One half dozen glasses—J. McLain Repairing door checks—Frank D. Morrill Two yards enamel cloth—W. & J. Sloane & Co. One paper tacks—W. & J. Sloane & Co.	80
One half dozen glasses—I McLain	30
Panairing door chooks - Frank D Marvill	1 75
The paring door checks—Frank D. Morini	1 10
1 wo yards enamer cloth— w. & J. Sloane & Co.	1 20
One paper tacks—w. & J. Sloane & Co.	10
One yard felt—W. & J. Sloane & Co. One No. 20 Bradford stove—M. De La Montanya.	1 25
One No. 20 Bradford stove—M. De La Montanya	16 00
Nine joints stove-pipe—M. De La Montanya	2 70
Two elbows, corrugated—M. De La Montanya	1 30
One elbow nieged—M De Le Montenue	30
One elbow, pieced—M. De La Montanya One half sheet zinc—M. De La Montanya	
One than sheet zinc—M. De La Montanya	75
Damper—M. De La Montanya	25
Collar—M. De La Montanya	10
One day's labor—M. De La Montanya	3 00
One oak desk—George H. Fuller	40 00
One office chair—George H. Fuller	7 00
One 8-foot standing dash Goorge H. Frilles	18 00
One brobb standing desk—deolge H. Fuller	
One office chair—George H. Fuller One 6-foot standing desk—George H. Fuller One bookkeeper's chair—George H. Fuller One revolving bookcase—George H. Fuller	5 50
One revolving bookcase—George H. Fuller	21 00
Forty brass picture hooks—Savage Bros.	1 00
Forty brass picture hooks—Savage Bros.  Two dozen P. S. rod chairs—California Furniture Co.	38 00
Twenty-four arm rests—California Furniture Co.	16 00
Labor for month of November	50 00
Two &inch holts_Savage Bros	50
Two 6-inch bolts—Savage Bros. Six elbow catches—Dunham, Carrigan & Hayden Co.	
Dia cidow caucies—Dunnain, Carrigan & Hayden Co	_ 60 _ 60
Two Russia lenders—Taylor Goodrich	5 00
One bowl and setting—Sanitary Plumbing Co.	2 75
One bowl and setting—Sanitary Plumbing Co. Thirty-seven yards linoleum—McGovern & Cahill	35 15
One Smyrna rug—McGovern & Cahill	8 00
Gog nine and labor South Hall I M McNamers	
	/ (#)
Gas pipe and labor, South Hall—J. M. McNamara  Three tables—Niehaus Bros. & Co.	7 00 12 00

<b>4</b>	
Three small doors—Niehaus Bros. & Co.	\$3 00
Eight hundred feet white cedar—Niehaus Bros. & Co.	
One hundred and fifty feet pine—Niehaus Bros. & Co.  One door—Niehaus Bros. & Co.  Thirteen hundred cubic feet gas—Oakland Gas Co.	88 00
Thirteen hundred enhic feet may (Arkland Gog Co	2 05
Twelve hundred cubic feet gas—Oakland Gas Co.	3 25 3 00
Labor for month of December	54 00
Labor for month of December One galvanized iron screen—M. De La Montanya One half dozen cupboard catches—A. Erlandsen	8 00
One half dozen cupboard catches—A. Erlandsen	50
Une third dozen window catches—A. Eriandsen	50
Four and one half yards duck—Neville & Co.	2 25
One dozen joint butts—Savage Bros.	60
Four dozen screws—Savage Bros. One half dozen wardrobe hooks—A. Erlandsen	30 1 20
One half dozen hooks and eyes—A. Erlandsen One No. 2 Cottage Home stove—M. De La Montanya Seven joints Russia iron pipe—M. De La Montanya	20
One No. 2 Cottage Home stove—M. De La Montanya	9 00
Seven joints Russia iron pipe—M. De La Montanya	5 25
Inree corrugated elbows-M. De La Montanya	3 00
One square elbow—M. De La Montanya Damper and collar—M. De La Montanya	75
Damper and collar—M. De La Montanya	35
One stove board—M. De La Montanya	2 50
Setting up same—M. De La Montanya Plumbers' repairs, South Hall—J. M. McNamara Plumbers' repairs, North Hall—J. M. McNamara	3 00 9 00
Plumbers' renairs North Hell—I M. McNamara	4 00
Two Dart stoves—M. De La Montanya	13 00
Two Dart stoves—M. De La Montanya Six joints stove-pipe—M. De La Montanya	1 50
Two elbows—M. De La Montanya	50
Two dampers—M. De La Montanya Two collars—M. De La Montanya	50
Two collars—M. De La Montanya	20
One sheet zinc—M. De La Montanya.	1 50
Two safety wall tubes—M. De La Montanya	3 00
Labor setting up—M. De La Montanya.	5 00
Labor setting up—M. De La Montanya. Tinning Library building—J. M. McNamara Two Oakland directories—Dutton & Partridge	25 00 10 00
One antique desk—George H. Fuller	30 00
One antique desk—George H. Fuller Filing four saws—A. Erlandsen	1 50
Une set Yale casters—A. Erlandsen	65
One terra-cotta thimble—Savage Bros.	65-
Labor for month of January  Eight hundred cubic feet gas—Oakland Gas Co.  Eighteen joints stove-pipe—J. M. McNamara	<b>54</b> 00
Eight hundred cubic feet gas—Oakland Gas Co.	2 00
Eighteen joints stove-pipe—J. M. McNamara	6 60
Labor satting up stava North Hall I M McNamara	70 3 50
Two elbows—J. M. McNamara Labor setting up stove, North Hall—J. M. McNamara Repairing water-closet, North Hall—J. M. McNamara	4 25
One piece gutter—Niehaus Bros. & Co.	1 60
One piece gutter—Niehaus Bros. & Co	4 00
Kitting keyA Kirlandsen	25
Collar for stove-pipe—J. J. Menges	25
Collar for stove-pipe—J. J. Menges Damper for stove-pipe—J. J. Menges Fitting same—J. J. Menges One and one half yards green drill—W. & J. Sloane & Co. Two papers tacks—A. Erlandsen	25
One and one helf words groundwill. W. S. I. Cleans & Co.	50
Two noners tacks. A Walendson	75 10
Two key blanks—A. Erlandsen	20
Repairing spring—A. Erlandsen	25
Repairing spring—A. Erlandsen	1 50
Labor for month of February—John Davis  Three thousand two hundred cubic feet gas—Oakland Gas Co	51 00
Three thousand two hundred cubic feet gas—Oakland Gas Co	8 00
Labor for month of March—John Davis One Cottage Home stove—M. De La Montanya. One joint Russia iron pipe—M. De La Montanya.	52 00
One Cottage Home stove—M. De La Montanya	9 00
One Russia iron fireboard—M. De La Montanya	75 1 50
One damper—M. De La Montanya	25
One damper—M. De La Montanya One oxidized W. L. board—M. De La Montanya	2 50
Labor and cartage on same—M. De La Montanya	3 00
Three dozen stools—Indianapolis Furniture Co.	27 00
Six kitchen tables—E. Hook One gallon alcohol—E. G. Buswell & Co.	12 00
One gallon alcohol—E. G. Buswell & Co.	3 00
Two pounds shellac—E. G. Buswell & Co. One hundred and twelve feet white cedar—Nichaus Bros. & Co.	1 00
One thousand feet lettice Nichous Bros. & Co	16 00
One gallon linseed oil—H. Richards	10 00 80
One thousand feet lattice—Niehaus Bros. & Co. One gallon linseed oil—H. Richards Two wood clamps—A. Erlandsen	1 10
Trwo chest locks— A. Brighasen	50
One gas lighter—A. Erlandsen One box tapers—A. Erlandsen Three yards oilcloth—Max. Greenhood & Co.	75
One box tapers—A. Erlandsen	25
Three yards oilcloth—Max. Greenhood & Co.	1 20

Pipe and labor for nine brackets—J. M. McNamara Repairing water-closet in Gymnasium—J. M. McNamara	<b>\$</b> 16 00
Repairing water-closet in Gymnasium—I. M. McNamara	5 00
One 11 inch globe velve. I M MaNamara	1 50
Design forest and Galilon T. M. McNamon	200
Repairing faucets and fittings—J. M. McNamara	6 00
Six joints stove-pipe—J. M. McNamara	1 80
One elbow—J. M. McNamara	30
Renairing closet—I M McNamara	1 50
On link and land T M Malland	0.00
One light pendant—J. M. McNamara	2 00
Labor for month of April	51 00
Two thousand two hundred cubic feet gas—Oakland Gas Co.	5 50
Popularing water alegat in South Hall I M MaNamara	2 10
Repairing water-closet in South Hall—J. M. McNamara	2 10
Repairing leader in North Hall—J. M. McNamara	3 00
Repairing roof of Observatory—I. M. McNamara	1 50
Pensiring shower in Gunnesium I M McNemere	ī 00
Repairing shower in Gymnasium—J. M. McNamara.	1 00
One thousand cubic feet gas—Oakland Gas Co	2 50
Repairing door check—F. D. Morrill	2 75
Witten andre sewdnet George C. Pene	3 75
manta tara and an half area factoring late Comment	1 80
Twenty-two and one half square feet wire cloth—Savage Bros.	1 80
Forty-eight pounds \(\frac{1}{2}\)-inch rope—J. McClain	7 68
One Vale nadlock A Erlandsen	1 25
Vie Tule Paracies T. M. Manage	- 60
Six pounds paint—J. M. McNamara	90
Solder and coal—J. M. McNamara	50
One half day's labor of two men—I. M. McNamara	3 00
One pair bress hinges and scraws_A Erlandsen	10
One pair press times and solowed. I Talendson	70
Pipe and labor for nine brackets—J. M. McNamara Repairing water-closet in Gymnasium—J. M. McNamara One 1½-inch globe valve—J. M. McNamara Repairing faucets and fittings—J. M. McNamara Six joints stove-pipe—J. M. McNamara One elbow—J. M. McNamara Repairing closet—J. M. McNamara One light pendant—J. M. McNamara One light pendant—J. M. McNamara Labor for month of April Two thousand two hundred cubic feet gas—Oakland Gas Co. Repairing water-closet in South Hall—J. M. McNamara Repairing leader in North Hall—J. M. McNamara Repairing roof of Observatory—J. M. McNamara Repairing shower in Gymnasium—J. M. McNamara One thousand cubic feet gas—Oakland Gas Co. Repairing door check—F. D. Morrill Fifteen sacks sawdust—George C. Pape Twenty-two and one half square feet wire cloth—Savage Bros. Forty-eight pounds \$\frac{1}{2}\$-inch rope—J. McClain One Yale padlock—Ā. Erlandsen Six pounds paint—J. M. McNamara Solder and coal—J. M. McNamara One half day's labor of two men—J. M. McNamara One pair brass hinges and screws—A. Erlandsen One brass rods—A. Erlandsen Two brass rods—A. Erlandsen Three gross screw hooks—A. Erlandsen Three gross screw hooks—A. Erlandsen	05
Two brass rods—A. Erlandsen	25
Three gross screw hooks A Erlandsen	1 65
On a win have big and a first A. Dilandson	25
One pair orass ninges and screws—A. Eriandsen	20
One brass lock and two keys—A. Erlandsen	50
One hinge, hasp, and holts—A. Erlandsen	20
One nedlock and two keys A Fylandson	1 00
One particle and two keys—A. Dranusen	2 00
Repairing roof to North Hall—J. M. McNamara	2 00
Bill of J. M. McNamara for repairing Gymnasium: Forty-five pounds 11-inch	
lead nine one sewer tran three nounds solder two hose hins five inches	
read pipe, one sewer trap, three pointer source, one hose bibs, five mones	13 00
water pipe, nine nitings, one day's labor of two men.	19 00
Repairs in North Hall—J. M. McNamara	5 50
New bottom in Gymnasium tank—J. M. McNamara	12 00
New bottom in Gymnasium tank—J. M. McNamara	12 00 75
New bottom in Gymnasium tank—J. M. McNamara Fitting three keys—A. Erlandsen	12 00 75
New bottom in Gymnasium tank—J. M. McNamara  Fitting three keys—A. Erlandsen  Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNa-	12 00 75
New bottom in Gymnasium tank—J. M. McNamara Fitting three keys—A. Erlandsen Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNamara	12 00 75 1 25
New bottom in Gymnasium tank—J. M. McNamara  Fitting three keys—A. Erlandsen  Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNamara  One reducer—I. M. McNamara	12 00 75 1 25
New bottom in Gymnasium tank—J. M. McNamara Fitting three keys—A. Erlandsen Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNamara One reducer—J. M. McNamara.	12 00 75 1 25 10
New bottom in Gymnasium tank—J. M. McNamara Fitting three keys—A. Erlandsen Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNamara One reducer—J. M. McNamara. One chair casting—G. H. Fuller Desk Co.	12 00 75 1 25 10 1 00
New bottom in Gymnasium tank—J. M. McNamara Fitting three keys—A. Erlandsen Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNamara One reducer—J. M. McNamara. One chair casting—G. H. Fuller Desk Co.	12 00 75 1 25 10 1 00
One brass hook and eye—A. Erlandsen Two brass rods—A. Erlandsen Three gross screw hooks—A. Erlandsen One pair brass hinges and screws—A. Erlandsen One brass lock and two keys—A. Erlandsen One hinge, hasp, and bolts—A. Erlandsen One pallock and two keys—A. Erlandsen One pallock and two keys—A. Erlandsen Repairing roof to North Hall—J. M. McNamara Bill of J. M. McNamara for repairing Gymnasium: Forty-five pounds 1½-inch lead pipe, one sewer trap, three pounds solder, two hose bibs, five inches water pipe, nine fittings, one day's labor of two men Repairs in North Hall—J. M. McNamara New bottom in Gymnasium tank—J. M. McNamara Fitting three keys—A. Erlandsen Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNamara One reducer—J. M. McNamara. One chair casting—G. H. Fuller Desk Co.	12 00 75 1 25 10 1 00 \$6,730 29
Appropriate No. O. C. Administration, Administration and Deletion	\$6,730 29
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### APPENDIX No. 2 D-Administration-Telegraphing and Expressage.

Expressage—Patterson & Co.	<b>\$</b> 3 25
Exchange etc on warrants honds etc	25
Tolographing Wortern Union Tolograph Co	3 37
Expressage—Patterson & Co.  Exchange, etc., on warrants, bonds, etc.  Telegraphing—Western Union Telegraph Co.  Expressage—Wells, Fargo & Co.  Exchange, etc., on warrants, bonds, etc.  Telegraphing—Western Union Telegraph Co.  Expressage—Wells, Fargo & Co.  Telegraphing—Western Union Telegraph Co.  Exchange, etc., on warrants, bonds, etc.  Expressage—Wells, Fargo & Co.  Exchange on bonds, etc.  Expressage—Wells, Fargo & Co.  Exchange on bonds, etc.  Expressage—Wells, Fargo & Co.  Expressage—Patterson & Co.  Moving safe from San Francisco—F. B. Belcher  Timber for safe—F. B. Belcher  Expressage—Wells, Fargo & Co.  Exchange from Sacramento—Louis Sloss, Treasurer  Exchange on bonds—Louis Sloss, Treasurer  Exchange on eastern drafts—Louis Sloss, Treasurer  Telegrams—Western Union Telegraph Co.  Exchange on remittance—Louis Sloss, Treasurer  Telegrams—Western Union Telegraph Co.  Exchange on remittance—Louis Sloss, Treasurer  Expressage—Patterson & Co.  Exchange on remittance—Louis Sloss, Treasurer  Expressage—Patterson & Co.	
Expressage—Wells, Fargo & Co.	16 75
Exchange, etc., on warrants, bonds, etc.	4 18
Tolographing Western Union Tolograph Co	1 65
Telegraphing—Western Onion Telegraph Co.	
Expressage—wells, rargo & Co.	3 75
Telegraphing—Western Union Telegraph Co	80
Exchange etc on warrents hands etc	6 09
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Expressage—wells, Fargo & Co.	7 80
Exchange on bonds, etc.	21 50
Expressed Wells Form & Co	1 20
m.t. and the Market Train Malaurah Ca	
Telegraphing—western Union Telegraph Co.	1 50
Expressage—Wells, Fargo & Co.	35
Exchange collection of bonds	6 96
Daniel Will Daniel	
Expressage—wells, rargo & Co.	4 40
Expressage—Patterson & Co.	3 00
Moving safe from San Francisco. F R Relcher	50 00
Moving Sale Holl Oal Plancisco—P. D. Belonoi	
Timber for safe—F. B. Beicher	1 00
Expressage—Wells, Fargo & Co.	2 70
Ershange from Caurements Louis Class Transprov	50 17
Exchange from Sacramento—Louis Sloss, Heastlet	
Exchange on bonds—Louis Sloss, Treasurer	7 93
Expressage—Wells, Fargo & Co.	4 41
Emphanish on an acatemy duefts. I assis Class Transparen	1 70
Exchange on eastern drafts—Louis Sloss, Treasurer	
Telegrams—Western Union Telegraph Co.	1 86
Commission on money orders—S. W. Backus	20
End and a manifestation of the Store Throughout	25
Exchange on remittance—Louis Stoss, Treasurer	
Expressage—Patterson & Co.	8 60
Expressore—Wells Forgo & Co	6 55
Dallar and Jack Town Class Managemen	
Exchange on draits—Louis Sioss, Treasurer	42
Telephone—Daggett & Co.	25
Telegram Western Union Telegraph Co	57
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Exchange on warrants to Sacramento—Louis Sioss, Treasurer	5 31
Telegrams—Western Union Telegraph Co.	4 20
Expressed a Patterson & Co	8 50
Banasage—Laweison & Ov.	
Expressage—wells, Fargo & Co.	7 80
Commission on money orders—S. W. Backus	30
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Exchange on remittance—Louis Sloss, Treasurer  Expressage—Patterson & Co.  Expressage—Wells, Fargo & Co.  Exchange on drafts—Louis Sloss, Treasurer  Telephone—Daggett & Co.  Telegram—Western Union Telegraph Co.  Exchange on warrants to Sacramento—Louis Sloss, Treasurer  Telegrams—Western Union Telegraph Co.  Expressage—Patterson & Co.  Expressage—Wells, Fargo & Co.  Commission on money orders—S. W. Backus.  Commission on money orders—N. B. Byrne  Expressage—Patterson & Co.	
Expressage—Patterson & Co	5 43
Expressage—Patterson & Co	5 43
Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co.  Premium on Chicago draft—Anglo-Californian Bank	5 43 45
Expressage—Patterson & Co	5 43 45 47
Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co.  Premium on Chicago draft—Anglo-Californian Bank Commission on money orders—N. B. Byrne Expressage—Wells, Fargo & Co.	5 43 45 47
Expressage—Patterson & Co  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank  Commission on money orders—N. B. Byrne  Expressage—Wells, Fargo & Co  Expressage—Wells, Fargo & Co	5 43 45 47 5 95
Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank Commission on money orders—N. B. Byrne  Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.	5 43 45 47 5 95 13 05
Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank Commission on money orders—N. B. Byrne Expressage—Wells, Fargo & Co. Expressage—Wells, Fargo & Co. Commission on money orders—N. B. Byrne	5 43 45 47 5 95 13 05 31
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Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank Commission on money orders—N. B. Byrne Expressage—Wells, Fargo & Co. Expressage—Wells, Fargo & Co. Commission on money orders—N. B. Byrne Exchange on drafts—Louis Sloss, Treasurer Exchange on drafts—Louis Sloss, Treasurer	5 43 45 47 5 95 13 05 31 1 00
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Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank Commission on money orders—N. B. Byrne Expressage—Wells, Fargo & Co. Expressage—Wells, Fargo & Co. Commission on money orders—N. B. Byrne Exchange on drafts—Louis Sloss, Treasurer Exchange on drafts, etc.—Louis Sloss, Treasurer Expressage—Patterson & Co.	5 43 45 47 5 95 13 05 31 1 00 21 35 1 75
Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank Commission on money orders—N. B. Byrne  Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Commission on money orders—N. B. Byrne  Exchange on drafts—Louis Sloss, Treasurer  Exchange on drafts, etc.—Louis Sloss, Treasurer  Expressage—Patterson & Co.  Telegram—Western Union Telegraph Co.	5 43 45 47 5 95 13 05 31 1 00 21 35
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Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank Commission on money orders—N. B. Byrne Expressage—Wells, Fargo & Co. Expressage—Wells, Fargo & Co. Commission on money orders—N. B. Byrne Exchange on drafts—Louis Sloss, Treasurer Exchange on drafts, etc.—Louis Sloss, Treasurer Expressage—Patterson & Co. Telegram—Western Union Telegraph Co. Exchange on Sacramento—Louis Sloss, Treasurer Telegrams—Western Union Telegraph Co.	5 43 45 47 5 95 13 05 31 1 00 21 35 1 75 1 00 86 26 64
Expressage—Patterson & Co.  Telegraphing—Western Union Telegraph Co. Premium on Chicago draft—Anglo-Californian Bank  Commission on money orders—N. B. Byrne  Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Commission on money orders—N. B. Byrne  Exchange on drafts—Louis Sloss, Treasurer  Exchange on drafts, etc.—Louis Sloss, Treasurer  Expressage—Patterson & Co.  Telegram—Western Union Telegraph Co.  Exchange on Sacramento—Louis Sloss, Treasurer  Telegrams—Western Union Telegraph Co.  Exchange on Sacramento—Louis Sloss, Treasurer  Telegrams—Western Union Telegraph Co.  Expressage—Patterson & Co.	5 43 45 47 5 95 13 05 31 1 00 21 35 1 75 1 00 86 26
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One half dozen note pads—Payot, Upham & Co.	<b>\$</b> 0 38
One half dozen note pads—Payot, Upham & Co	75
One dozen pencils—Payot, Upham & Co	40
One gross Dreka pens—Dutton & Partridge	90
One gross Dreka pens—Dutton & Partridge	5 00
Five balls twine—Dutton & Partridge One third gross Dixon's pencils—Dutton & Partridge One gross Faber's pencils—Dutton & Partridge	1 00
One third gross Dixon's pencils—Dutton & Partridge	1 50
One gross Faber's pencils—Dutton & Partridge.	1 00
Four No. 10 records—Dutton & Partridge	2 40
One No. 40 records—Dutton & Partridge	1 00
Two No. 36 records—Dutton & Partridge	1 00
Three quarts ink—Dutton & Partridge	2 25
Three quarts ink—Dutton & Partridge One quart crimson fluid—Dutton & Partridge	75
One 32-ounce aniline—Dutton & Partridge	1 25
One quart mucilage—Dutton & Partridge	1 00
One quart mucilage—Dutton & Partridge  Three dozen document envelopes—Dutton & Partridge  Three dozen document envelopes—Dutton & Partridge	1 95
Two San Francisco directories—Dutton & Partridge	10 00
One office diary—Payot, Upham & Co.	1 50
One office diary—Payot, Upham & Co. One sixth dozen office baskets—Walter Meese	_ 00
Less 25 per cent 55	
	1 75
Six boxes rubber bands—J. J. Evans	
Less	
	3 00
One basket—Wing Chung Lung	85
One basket—Wing Chung Lung Bishop's A B C Guide—two copies, one year	500
One record book.—Dutton & Pertridge	1 75
One record book—Dutton & Partridge One quarter ream journal paper—Dutton & Partridge Four boxes paper fasteners—Dutton & Partridge.	1 80
Tour hoves naner festeners. Dutton & Pertridge	1 00
One cloth record—W. B. Hardy	1 80
Wrening nanar H & Croster & Co	1 00
Wrapping paper—H. S. Crocker & Co. One half ream journal paper—Dutton & Partridge.	3 60
One hair ream journal paper—Button & Fattinge	3 50
Six quarts Hudorspools ink - Dutton & Partwidge	2 75
Six quarts Underwood's ink—Dutton & Faithage	3 65
One ream foolscap paper—Dutton & Partridge Six quarts Underwood's ink—Dutton & Partridge Two diaries—E. P. Bancroft One dozen inkstands—Payot, Upham & Co.	4 60
One dozen inkstanus—rayot, Uphani & Co.	3 00
Four waste baskets—rayot, Opinan & Co.	4 00
Four waste baskets—Payot, Upham & Co. Two quires treasury blotting paper—H. S. Crocker & Co. One and one fifth thousand flat head fasteners—H. S. Crocker & Co.	3 00
One and one into thousand hat nead lasteners—H. S. Crocker & Co.	1 00
Three dozen pencils—H. S. Crocker & Co. One half dozen letter files—H. S. Crocker & Co. One sixth dozen crimson ink—H. S. Crocker & Co.	
One nair dozen letter files—H. S. Crocker & Co.	8 20
One sixth dozen crimson ink—H. S. Crocker & Co.	2 00
One gross rubber bands—H. S. Crocker & Co.	4 50
One copy brush—H. S. Crocker & Co. One ream legal cap—H. S. Crocker & Co.	40
One ream legal cap—H. S. Crocker & Co.	3 50
Two copy books—H. S. Crocker & Co. One banker's outfit—A. S. Barnes & Co. Five requisition books—H. S. Crocker & Co.	2 60
One banker's outnit—A. S. Barnes & Co.	5 00
Five requisition books—H. S. Crocker & Co.	15 00
One ledger—H. S. Crocker & Co.	2 60
One cash book—H. S. Crocker & Co.	2 60
One cash book—H. S. Crocker & Co. One journal—H. S. Crocker & Co. Lettering same—H. S. Crocker & Co.	2 60
Lettering same—H. S. Crocker & Co.	1 00
One diary—The Bancroft Co.	1 50
One box pens—Dutton & Partridge Four quires Manilla paper—H. S. Crocker & Co.	75
Four quires Manilla paper—H. S. Crocker & Co.	1 00
One box pens—Dutton & Partridge	1 00
	21.17.70
	<b>\$147</b> 78
APPENDIX No. 2 F—Administration—Postage.	
Partie as atomics N. P. Dyrma	eto w
Postage stamps—N. B. Byrne	\$50 00
Postage stamps—N. B. Byrne Postage stamps—N. B. Byrne	80 00
rostage stamps—N. B. Byrne	25 00
Five nundred postal cards—N. B. Byrne	5 00
Postage stamps—N. B. Byrne	65 00
wenty-nve 1-cent wrappers—N. B. byrne	25
Postage stamps—N. B. Byrne	210 00
Postage stamps—N. B. Byrne	88 90
Destale stands M. D. Dimer	A0 10
Postage stamps—N. B. Byrne	<b>40</b> 10
Postage stamps—N. B. Byrne	
•	40 10 \$564 25
Postage stamps—N. B. Byrne	
APPENDIX No. 2 G—Administration—Land Administration.	\$564 25
APPENDIX No. 2 G—Administration—Land Administration.  Sheriff's fees, serving delinquent notices—J. B. Mhoon	\$564 <u>2</u> 5 \$5 50
APPENDIX No. 2 G—Administration—Land Administration.	\$564 25

SECRETARY TO THE BOARD OF REGENTS.	155
Commission on money and an N. D. Drawn	<b>90.0</b> E
Commission on money order—N. B. Byrne.  Clerical services—Register and Receiver, Marysville	\$0 05 6 00
Commission on money order—N. B. Byrne	05
Commission on money order—N. B. Byrne Printing 100 lists of land for sale—C. A. Murdock & Co., Commission on money order—N. B. Byrne	21
Printing 100 lists of land for sale—C. A. Murdock & Co.,	8 00
Commission on money order—N. B. Byrne	05
•	\$29 16
APPENDIX No. 2 H—Administration—Incidental Expenses.	
Renewal of Secretary's hand—Pacific Surety Co	\$50 00
Renewal of Secretary's bond—Pacific Surety Co.  Renewal of Assistant Secretary's bond—Pacific Surety Co.	50 00
Rent of room for Regents—G. Lambert, Agent	30 00
Clerical work—W. C. Allen	21 75
Clerical work—W. C. Allen Clerical work—W. C. Allen Rent of Regents' room, August and September—G. Lambert, Agent	12 45 60 00
Services of Janitor for Regents' room, August and July	8 00
Services of Janitor for Regents' room, August and July	60
Copying letters to Treasurer and Secretary of State—Runge & Elliot	1 10
Clerical services—W. C. Allen	4 10 60 00
Janitor of Regents' room, Sentember and October—(+, Lambert, Agent	8 00
Answer in case Burke vs. Regents—Matt. Clarken	50
Answer in case Burke vs. Regents—Matt. Clarken Rent of Regents' room—G. Lambert, Agent Janitor's services, Regents' room—G. Lambert, Agent Janitor's services, Regents' room, January and February—G. Lambert, Agent Rent of Regents' room, January and February—G. Lambert, Agent Rent of Regents' room, January and February—G. Lambert, Agent	80 00
Janitor's services, Regents' room—G. Lambert, Agent	4 00 8 00
Rent of Regents' room, January and February—G. Lambert, Agent	60 00
Rubber stamp—C. A. Klinkner & Co. Rent of Regents' room—G. Lambert, Agent  Janitor's services, Regents' room, February—G. Lambert, Agent	50
Rent of Regents' room—G. Lambert, Agent	80 00
Janitor's services, Regents' room, February—G. Lambert, Agent	4 00 30 00
Janitor's services Regents' room for April—G. Lambert, Agent	4 00
One stamp—C. A. Klinkner & Co.	25
Acknowledgments of Secretary—J. R. Little	1 00
Rent of Regents' room for May—G. Lambert, Agent	30 00 4 00
Janitor's services, Regents room, for April—G. Lambert, Agent  Janitor's services, Regents' room, for April—G. Lambert, Agent  One stamp—C. A. Klinkner & Co.  Acknowledgments of Secretary—J. R. Little  Rent of Regents' room for May—G. Lambert, Agent  Janitor's services, Regents' room, for May—G. Lambert, Agent  Notary Public fees for release of Huffman mortgage—J. W. Cook  Funeral expenses of Pred John Le Conte. Albert Rown	1 00
Funeral expenses of Prof. John Le Conte—Albert Brown	382 00
Funeral expenses of Prof. John Le Conte—Albert Brown Rent of Regents' room for June—G. Lambert, Agent Janitor's services, Regents' room, for June—G. Lambert, Agent	30 00
Janitor's services, Regents' room, for June—G. Lambert, Agent	4 00
One stamp—C. A. Klinkner & Co. Two stamps—L. E. Alexander & Co.	50 1 00
Clerical service in Recorder's office—Miss S. M. Hardy	12 00
Clerical service in Recorder's office—C. H. Bentley	13 00
-	\$955 75
APPENDIX No. 2 I—Administration—College Celebrations.	+000 10
Music for Commencement—Fifth Artillery Regiment Band	<b>#105 00</b>
Night work—A. Edgar	4 00
Night work—James Tait Four pieces ribbon for diplomas—O'Connor, Moffatt & Co Writing diplomas—T. R. Southern	4 00
Four pieces ribbon for diplomas—O'Connor, Moffatt & Co	9 60
Writing diplomas—T. R. Southern	23 50
One piece ribbon—Kohlberg, Strauss & Frohman	11 00 2 75
Carriage hire—H. M. Waterbury One piece ribbon—Kohlberg, Strauss & Frohman Twelve pieces gilt-edge ribbon—Schweitzer & Co.	24 00
Music on Charter Day—Noah Brandt's Orchestra  Three hundred and fifty dance cards—Brunt & Co.	41 50
Three nunared and fifty dance cards—Brunt & Co.	8 50
Five small ribbon bows—Brunt & Go.  Fifty diplomas on parchment—Schmidt Label Co.	75 00
- and displaying on partitions continues Educat Continues	
Engrossing htty-four diplomas—T. R. Southern	
Engrossing fifty-four diplomas—T. R. Southern————————————————————————————————————	27 00 45 70
Engrossing htty-four diplomas—T. R. Southern	27 00 45 70
Engrossing htty-four diplomas—T. R. Southern	27 00
Stationery, engraving, printing, etc.—Jos. W. Flynn.———————————————————————————————————	27 00 45 70 \$401 55
Stationery, engraving, printing, etc.—Jos. W. Flynn  Appendix No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker	27 00 45 70 \$401 55 \$67 30
Stationery, engraving, printing, etc.—Jos. W. Flynn.———————————————————————————————————	27 00 45 70 \$401 55
Engrossing htty-tour diplomas—T. R. Southern Stationery, engraving, printing, etc.—Jos. W. Flynn  Appendix No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker  Traveling expenses of M. E. Letts  Traveling expenses of Secretary	27 00 45 70 \$401 55 \$67 30 3 75 6 65 14 45
Engrossing htty-tour diplomas—T. R. Southern Stationery, engraving, printing, etc.—Jos. W. Flynn  Appendix No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker  Traveling expenses of M. E. Letts  Traveling expenses of Secretary	27 00 45 70 \$401 55 \$67 30 3 75 6 65 14 45 22 90
Engrossing htty-tour diplomas—T. R. Southern Stationery, engraving, printing, etc.—Jos. W. Flynn  Appendix No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker  Traveling expenses of M. E. Letts  Traveling expenses of Secretary	27 00 45 70 \$401 55 \$67 30 3 75 6 65 14 45 22 90 27 25
Engrossing fifty-four diplomas—T. R. Southern Stationery, engraving, printing, etc.—Jos. W. Flynn  APPENDIX No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker Traveling expenses of M. E. Letts Traveling expenses of Secretary Traveling expenses of J. D. Layman Traveling expenses of J. H. Gray, Jr. Traveling expenses of J. H. Gray, Jr. Traveling expenses of Professor Greene	27 00 45 70 \$401 55 \$67 30 3 75 6 65 14 45 22 90
Engrossing fifty-four diplomas—T. R. Southern Stationery, engraving, printing, etc.—Jos. W. Flynn  APPENDIX No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker Traveling expenses of M. E. Letts Traveling expenses of Secretary Traveling expenses of J. D. Layman Traveling expenses of J. H. Gray, Jr. Traveling expenses of J. H. Gray, Jr. Traveling expenses of J. B. Clarke Traveling expenses of J. B. Clarke Traveling expenses of M. E. Letts	27 00 45 70 \$401 55 \$67 30 3 75 6 65 14 45 22 90 27 25 23 25 19 70 4 55
Engrossing fifty-four diplomas—T. R. Southern Stationery, engraving, printing, etc.—Jos. W. Flynn  APPENDIX No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker Traveling expenses of M. E. Letts Traveling expenses of Secretary Traveling expenses of J. D. Layman Traveling expenses of J. H. Gray, Jr. Traveling expenses of J. H. Gray, Jr. Traveling expenses of Professor Greene	27 00 45 70 \$401 55 \$67 30 3 75 6 65 14 45 22 90 27 25 23 25 19 70
Engrossing fifty-four diplomas—T. R. Southern Stationery, engraving, printing, etc.—Jos. W. Flynn  APPENDIX No. 2 J—Administration—Official and Lecturing Expenses.  Traveling expenses of Professor Putzker Traveling expenses of M. E. Letts Traveling expenses of Secretary Traveling expenses of J. D. Layman Traveling expenses of J. H. Gray, Jr. Traveling expenses of J. H. Gray, Jr. Traveling expenses of J. B. Clarke Traveling expenses of J. B. Clarke Traveling expenses of M. E. Letts	27 00 45 70 \$401 55 \$67 30 3 75 6 65 14 45 22 90 27 25 23 25 19 70 4 55

Traveling expenses of M. E. Letts	<b>\$</b> 7 20
Traveling expenses of M. E. Letts	4 55
Traveling expenses of M. E. Letts  Traveling expenses of M. E. Letts	6 10
Traveling averages of I P Raudin	9 75
Traveling expenses of Frederick Iddins Traveling expenses of J. H. C. Bonté, Secretary, July to December Traveling expenses of W. A. McKowen Traveling expenses of W. H. Phipps Traveling expenses of M. E. Letts, for November	70
Traveling expenses of I H C Doubt Compton Inlanta December	20.00
Traveling expenses of J. H. C. Bonte, Secretary, July to December.	32 20
Traveling expenses of W. A. McKowen	10 45
Traveling expenses of W. H. Phipps	65
Traveling expenses of M. E. Letts, for November	5 90
Traveling expenses of W. H. Phipps  Traveling expenses of W. C. Jones  Traveling expenses of J. H. C. Bonté, Secretary	25
Traveling expenses of W.C. Jones	39 20
The woling a whon so of T H C Routh Southern	9 55
The reling expenses of F. Cl. bolive, believaly	3 55
Traveling expenses of F. Slate Traveling expenses of F. Slate	5 15
Traveling expenses of F. Slate	81 90
Traveling expenses of frying Stringham	82 75
Traveling expenses of M. E. Letts	6 05
Traveling expenses of M. E. Letts Traveling expenses of Frederick Iddins	20
Traveling expenses of M. E. Letts	5 45
Traveling expenses of W.C. Iones	60 70
Traveling expenses of W. C. Jones Traveling expenses of M. E. Letts, for March	
Traveling expenses of M. E. Letts, for March	5 35
Traveling expenses of W. A. McKowen	6 30
Traveling expenses of Thomas R. Bacon.	92 55
Traveling expenses of C. M. Gayley	97 70
Traveling expenses of A. F. Lange.	43 30
Traveling expenses of A. F. Lange.  Traveling expenses of G. C. Edwards.  Traveling expenses of G. M. Richardson.	38 05
Traveling expenses of G. M. Richardson	82 15
Traveling expenses of Thos. R. Bacon	12 75
The reling expenses of C. M. Coulou	
Traveling expenses of C. M. Gayley  Traveling expenses of F. Slate	18 80
Traveling expenses of F. State	45 50
Traveling expenses of F. Slate	13 <b>60</b>
Traveling expenses of J. H. C. Bonté, Secretary	4 50
Traveling expenses of F. Slate  Traveling expenses of J. H. C. Bonté, Secretary  Traveling expenses of M. W. Haskell	26 70
Traveling expenses of issac riagg	21 25
Traveling expenses of M. E. Letts Traveling expenses of M. E. Letts Traveling expenses of Frederick Iddins.	5 70
Traveling appears of M. E. Letts	5 60
The walk of the desire I daing	2 60
Traveling expenses of Frederick Iddins.	75
Traveling expenses of F. Slate  Traveling expenses of J. H. C. Bonté, Secretary	9 40
Traveling expenses of J. H. C. Bonte, Secretary	6 55
Traveling expenses of W. H. Phipps	6 55 65
Traveling expenses of W. H. Phipps	
Traveling expenses of W. H. Phipps	65 1 50
Traveling expenses of M. H. Phipps	65 1 50 2 25
Traveling expenses of W. H. Phipps.  Traveling expenses of A. F. Lange.  Traveling expenses of G. C. Edwards  Traveling expenses of F. Slate	65 1 50 2 25 11 50
Traveling expenses of M. H. Phipps	65 1 50 2 25
Traveling expenses of W. H. Phipps.  Traveling expenses of A. F. Lange.  Traveling expenses of G. C. Edwards  Traveling expenses of F. Slate	65 1 50 2 25 11 50 3 50
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley	65 1 50 2 25 11 50
Traveling expenses of W. H. Phipps.  Traveling expenses of A. F. Lange.  Traveling expenses of G. C. Edwards  Traveling expenses of F. Slate	65 1 50 2 25 11 50 3 50
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  Appendix No. 2 K—4dministration—Cottage Repairs.	65 1 50 2 25 11 50 3 50 \$1,113 30
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repuirs.  Night work—A. Edgar	\$1,113 30 \$4 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—Administration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes	\$1,113 30 \$1,113 30 \$4 00 \$4 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—R. Forbes Night work—J. Davis	\$1,113 30 \$4 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—J. Gillick	\$4 00 4 00 4 00 3 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—J. Gillick	\$4 00 4 00 4 00 3 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—J. Gillick	\$4 00 4 00 4 00 3 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—J. Gillick	\$4 00 4 00 4 00 3 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repuirs.  Night work—A. Edgar Night work—B. Forbes Night work—I. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 4 00 5 75 11 00 3 00 5 75
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 4 00 5 75 11 00 3 00 5 75
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—I. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung. Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Labor on Long cottage—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 3 50 3 50 2 35
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Labor on Long cottage—J. M. McNamara Labor on Long cottage—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 4 00 3 00 5 75 11 00 3 00 3 50 3 50 3 50 3 50
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Labor on Long cottage—J. M. McNamara Labor on Long cottage—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 4 00 3 00 5 75 11 00 3 00 3 50 3 50 3 50 3 50
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Labor on Long cottage—J. M. McNamara Labor on Long cottage—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 4 00 3 00 5 75 11 00 3 00 3 50 3 50 3 50 3 50
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Labor on Long cottage—J. M. McNamara Four \$\frac{3}{4}\$-inch faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 4 00 3 00 5 75 11 00 3 00 3 50 3 50 3 50 3 50
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Labor on Long cottage—J. M. McNamara Four \$\frac{3}{4}\$-inch faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 3 50 3 3 00 2 35 4 00 1 00 2 1 00 2 1 00
Traveling expenses of W. H. Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Labor on Long cottage—J. M. McNamara Four \( \frac{3}{4}\)-inch faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing roof of North Hall—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 2 35 4 00 1 00 2 50 1 00
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—J. Davis Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Repairing sewer—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing voof of North Hall—J. M. McNamara Repairing voof of North Hall—J. M. McNamara Repairing von North Hall—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 3 50 3 50 3 50 2 35 4 00 1 00 2 50 1 00 2 50 1 00 2 50 1 00
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing word for North Hall—J. M. McNamara Charcoal for North Hall—J. M. McNamara Charcoal for North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 5 75 11 00 3 3 50 3 3 50 3 3 50 3 50 3 50 3 50
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing word for North Hall—J. M. McNamara Charcoal for North Hall—J. M. McNamara Charcoal for North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 2 35 4 00 1 00 2 50 1 00 75 4 00 2 50 1 00 2 50 1 00 2 55
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sewer—J. M. McNamara Repairing sewer—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing faucet—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 5 75 11 00 3 3 50 3 3 50 3 3 50 3 50 3 50 3 50
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing some—J. M. McNamara Repairing sewer—J. M. McNamara Repairing some J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing four for connections—J. M. McNamara Repairing four connections—J. M. McNamara Repairing faucet—J. M. McNamara Repairing faucet—J. M. McNamara Repairing faucet—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 2 35 4 00 1 00 2 50 1 00 75 4 00 2 50 1 00 2 50 1 00 2 55
Traveling expenses of W. H. Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—Administration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sower—J. M. McNamara Labor on Long cottage—J. M. McNamara Labor on Long cottage—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 2 35 4 00 1 00 2 50 1 00 75 4 00 2 50 1 00 2 50 1 00 2 55
Traveling expenses of W. H., Phipps Traveling expenses of A. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—R. Forbes Night work—J. Davis Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Labor on Long cottage—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing faucet—J. M. McNamara Repairing faucet—J. M. McNamara Repairing faucet—J. M. McNamara Repairing faucet—J. M. McNamara One door—Niehaus Bros. & Co. Sixteen feet threshold—Niehaus Bros. & Co.	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 2 35 4 00 1 00 2 50 1 00 75 4 00 2 50 1 00 2 50 1 00 2 55
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sour J. M. McNamara Repairing sour on Long cottage—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing sour faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing foucet—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 2 35 4 00 1 00 2 50 1 00 75 4 00 2 50 1 00 2 50 1 00 2 55
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sour J. M. McNamara Repairing sour on Long cottage—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing sour faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing foucet—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 50 3 50 2 35 4 00 1 00 2 50 1 00 2 50 1 00 2 50 2 50 2 50 2 50 2 50 2 50 2 50 2
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sour J. M. McNamara Repairing sour on Long cottage—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing sour faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing foucet—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 50 3 50 2 35 4 00 1 00 2 50 1 00 2 50 1 00 2 50 2 50 2 50 2 50 2 50 2 50 2 50 2
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sour J. M. McNamara Repairing sour on Long cottage—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing roof of North Hall—J. M. McNamara Repairing sour faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing foucet—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 50 3 50 2 35 4 00 1 00 2 50 1 00 2 50 1 00 2 50 2 50 2 50 2 50 2 50 2 50 2 50 2
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing voof of North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four for North Hall—J. M. McNamara Repairing four connections—J. M. McNamara Repairing foucet—J. M. McNamara Repairing faucet—J. M. McNamara Repairing four connections—J. M. McNamara Repairing faucet—J. M. McNamara	\$1 50 2 25 11 50 3 50 \$1,113 30 \$4 00 4 00 4 00 3 00 5 75 11 00 3 00 3 50 2 35 4 00 1 00 75 25 25 25
Traveling expenses of W. H., Phipps Traveling expenses of G. F. Lange Traveling expenses of G. C. Edwards Traveling expenses of F. Slate Traveling expenses of C. M. Gayley  APPENDIX No. 2 K—4dministration—Cottage Repairs.  Night work—A. Edgar Night work—B. Forbes. Night work—P. Gillick Painting—D. W. Lowe Painting—George C. Gottung Repairing boiler—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing sink—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing waste pipe—J. M. McNamara Repairing voof of North Hall—J. M. McNamara Repairing boiler connections—J. M. McNamara Repairing four faucets—J. M. McNamara Repairing four for North Hall—J. M. McNamara Repairing four connections—J. M. McNamara Repairing foucet—J. M. McNamara Repairing faucet—J. M. McNamara Repairing four connections—J. M. McNamara Repairing faucet—J. M. McNamara	\$4 00 4 00 4 00 4 00 4 00 3 00 575 11 00 3 00 2 35 4 00 1 00 2 50 1 00 2 50 1 00 2 50 4 00 4 00 7 5 4 00 7 5 4 00 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5
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SECRETARY TO THE BOARD OF REGENTS.	157
Repairing boiler in Gompertz cottage—J. M. McNamara  New connections in Long cottage—J. M. McNamara	\$1 00 2 50
Painting—James Andrews	$1\overset{\circ}{2}\overset{\circ}{00}$
Painting—James Andrews Plumber's repairs—J. M. McNamara	3 00
Painting cottage—James Andrews	70-00 3 00
Repairing boiler connection—J. M. McNamara  Repairing chimney stack—J. M. McNamara	3 00
Three keys fitted—A. Erlandsen	75
Three keys fitted—A. Erlandsen One mortise lock—A. Erlandsen Four pairs plated door knobs—A. Erlandsen	50
Four pairs plated door knobs—A. Erlandsen	1 25 1 50
Repairing bath, etc.—J. M. McNamara One chimney top, eight feet high—J. M. McNamara	7 00
Lining sink—J. M. McNamara	4 50
Lining sink—J. M. McNamara  Repairing water-closet in Gompertz cottage—J. M. McNamara  Bill of J. M. McNamara for repairing Jackson cottage:	2 50
Eight pounds lead pipe\$0 80	
Three pounds solder 75	
One boiler coupling 35	
One chimney top, labor, and wire 700 Three hours' labor, two men 150	
	10 40
Painting in cottages—James Andrew	15 00
<del>-</del>	#059 00
APPENDIX No. 2 L—Administration—Insurance.	\$253 00
Insurance—J. C. Mitchell & Son	<b>\$84 60</b>
Insurance on two cottages—J. C. Mitchell & Son Insurance on Chemical Laboratory—J. C. Mitchell & Son	24 00 375 00
Insurance on Chemical Laboratory—J. C. Mitchell & Son	90 00
Insurance on Chemical Laboratory—J. C. Mitchell & Son	210 75
<del>-</del>	9704 9E
APPENDIX No. 2 M—Administration—Water Supply.	<b>\$784 35</b>
•••	
Prospecting for water—H. Linderman	\$461 00 2 00
Labor for month of June  Prospecting for water—H. Linderman	290 00
Prospecting for water—H. Linderman Twenty-two feet 6-inch pipe—H. Linderman Labor for month of July	6 60
Labor for month of July	2 00
Labor for month of August Prospecting for water—H. Linderman	2 00 242 40
Labor for month of September	2 00
Labor for mouth of October	2 00
Labor for month of November	
	2 00
Advertisement for bids—San Francisco "Chronicle"	28 00
Labor for month of November  Advertisement for bids—San Francisco "Chronicle"  Advertisement for bids—San Francisco "Bulletin"  Labor for month of December	
Labor for month of December	28 00 12 00 2 00 2 00
Labor for month of December	28 00 12 00 2 00 2 00 100 00
Labor for month of December  Labor for month of January  Work on tunnel contract—W. C. Giles  Work on tunnel contract—W. C. Giles	28 00 12 00 2 00 2 00 100 00 100 00
Labor for month of December  Labor for month of January  Work on tunnel contract—W. C. Giles  Work on tunnel contract—W. C. Giles	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 100 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 100 00 2 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 612 50
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 612 50 50 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman	28 00 12 00 2 00 2 00 100 00 100 00 100 00 2 00 100 00 2 00 612 50 50 00 11 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 110 00 110 00 110 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman	28 00 12 00 2 00 2 00 100 00 100 00 100 00 2 00 100 00 2 00 612 50 50 00 11 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of March Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  Appendix No. 3 A—Agricultural Experiment Stations—Buildings.	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 110 00 11
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co.	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 612 50 50 00 11 00 \$2,245 50
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co. One barrel lime, Paso Robles Station—Salinas Valley Lumber Co.	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 612 50 50 00 11 00 \$2,245 50 \$2,245 50 2 25
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of March Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co. One barrel lime, Paso Robles Station—Salinas Valley Lumber Co. Four feet redwood, Paso Robles Station—Salinas Valley Lumber Co.	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 612 50 50 00 11 00 \$2,245 50
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co. One barrel lime, Paso Robles Station—Salinas Valley Lumber Co. Four feet redwood, Paso Robles Station—A. E. Johnson Paniting house outside. Paso Robles Station—A. E. Johnson Paniting house outside. Paso Robles Station—L. F. Bakestow	28 00 12 00 2 00 2 00 100 00 100 00 100 00 2 00 100 00 2 00 100 00 10 00 \$2,245 50 \$1 50 2 25 20 10 00 67 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co. One barrel lime, Paso Robles Station—Salinas Valley Lumber Co. Four feet redwood, Paso Robles Station—A. E. Johnson Paniting house outside. Paso Robles Station—A. E. Johnson Paniting house outside. Paso Robles Station—L. F. Bakestow	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 110 00 \$2 00 \$10 00 \$2 50 50 00 11 00 \$2,245 50 \$1 50 2 25 10 00 67 00 37 00
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Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of March Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co. One barrel lime, Paso Robles Station—Salinas Valley Lumber Co. Four feet redwood, Paso Robles Station—Salinas Valley Lumber Co.	28 00 12 00 2 00 2 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 110 00 \$2 00 \$10 00 \$2 50 50 00 11 00 \$2,245 50 \$1 50 2 25 10 00 67 00 37 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co. One barrel lime, Paso Robles Station—Salinas Valley Lumber Co. Four feet redwood, Paso Robles Station—Salinas Valley Lumber Co. Remodeling chimney, Paso Robles Station—A. E. Johnson Painting house outside, Paso Robles Station—I. F. Bakestow Graining house inside, Paso Robles Station—I. F. Bakestow Painting, etc., house inside, Paso Robles Station—I. F. Bakestow Painting tank and trestle, Paso Robles Station—I. F. Bakestow	28 00 12 00 2 00 2 00 100 00 100 00 100 00 2 00 100 00 2 00 612 50 50 00 10 00 \$2,245 50 \$1 50 2 25 10 00 67 00 14 00 15 00 15 00 15 00
Labor for month of December Labor for month of January Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of February Work on tunnel contract—W. C. Giles Work on tunnel contract—W. C. Giles Labor for month of March Work on tunnel contract—W. C. Giles Labor for month of April Final payment on tunnel contract—W. C. Giles Sinking a well twenty-five feet deep—H. Linderman Timbering twenty-two feet—H. Linderman Two days' labor—H. Linderman  APPENDIX No. 3 A—Agricultural Experiment Stations—Buildings.  One hundred and fifty brick, Paso Robles Station—Elliot Brick Co. One barrel lime, Paso Robles Station—Salinas Valley Lumber Co. Four feet redwood, Paso Robles Station—Salinas Valley Lumber Co. Remodeling chimney, Paso Robles Station—A. E. Johnson Painting house outside, Paso Robles Station—I. F. Bakestow Graining house inside, Paso Robles Station—I. F. Bakestow Painting tank and trestle, Paso Robles Station—I. F. Bakestow Painting tank and trestle, Paso Robles Station—I. F. Bakestow	28 00 12 00 2 00 2 00 100 00 100 00 100 00 2 00 100 00 2 00 100 00 2 00 612 50 50 00 11 00 10 00 \$2,245 50 \$1 50 2 25 20 10 00 67 00 37 00 15 00

## $\begin{tabular}{lll} Appendix No. 3 & B-Agricultural \ensuremath{\textit{Experiment Stations-Chemical Appearatus and Supplies.}} \end{tabular}$

wappen.	
Two rose crucibles—Justinian Caire	\$1 50
Two rose crucinies—Justinian Caire.  Rubber tubing—Justinian Caire.  Two hundred and fifty-three pounds sal soda—Justinian Caire Six tin plates—Justinian Caire.  Strychnine—Justinian Caire.  Paraffine—Justinian Caire.  Ten pounds caustic potash—Justinian Caire  Ten feet tin pipe—Justinian Caire.  Two pounds chloride of calcium—Justinian Caire.  Washed filter paper—Justinian Caire.  Four V tubes—Justinian Caire.	50
Two hundred and fifty-three pounds sal soda—Justinian Caire	4 44
Six tin plates—Justinian Caire	30 85
StryChnine—Justinian Caire	40
Tan mounds constitue notesh Instinien Coiro	8 00
Ten feet tin nine—Instinian Caire	1 50
Two pounds chloride of calcium—Justinian Caire	1 50
Washed filter paper—Justinian Caire	25 00
Two files—Justinian Caire  Corks—Justinian Caire  Two files—Justinian Caire  Two files—Justinian Caire	1 00
Twenty-five pounds copper sulphate—Justinian Caire	2 25
Clamps and wood stand—Justinian Caire	6 50
Corks—Justinian Caire	5 00
Two files—Justinian Caire	80
Tincture press—Justinian Caire Three carboys—Justinian Caire Rubber tubing—Justinian Caire Two small oil cans—Justinian Caire Sheet rubber—Justinian Caire	6 75 6 75
Pubhar tuking Ingtinian Caire	10 00
Two small oil cans. Instinion Cairo	50
Sheet rubber—Instinian Caire	1 50
Rubber corks—Justinian Caire	00
Rubber corks—Justinian Caire One set pliers—Justinian Caire One set hornspoons—Justinian Caire One set cork borers—Justinian Caire One thermometer—Justinian Caire	2 00
One set hornspoons—Justinian Caire.	50
One set cork borers—Justinian Caire	2 70
One thermometer—Justinian Caire	2 50
One cutting shear—Justinian Caire Four burners, iron bottom—Justinian Caire Two filter stands—Justinian Caire	1 50
Four burners, iron bottom—Justinian Caire	5 00
1 WO Inter stands—Justinian Caire	2 50 1 75
One Frewher gas burner—Justinian Caire	3 50
One half dozen test tube racks—Instinian Caire	4 50
Two sets casseroles—Justinian Caire	7 50
Assorted porcelain dishes—Justinian Caire	14 00
One hundred and forty-nine pounds nitric acid—Justinian Caire	11 92
One hundred and nineteen pounds muriatic acid—Justinian Caire	4 16
Two hundred pounds sulphuric acid—Justinian Caire	5 00
One platinum dish—Justinian Caire	
One platinum dish—Justinian Caire \$45 50 One platinum dish—Justinian Caire 29 50	
Two filter stands—Justinian Caire One Fletcher gas burner—Justinian Caire One half dozen Ord. B. B. gas—Justinian Caire One half dozen test tube racks—Justinian Caire Two sets casseroles—Justinian Caire Assorted porcelain dishes—Justinian Caire One hundred and forty-nine pounds nitric acid—Justinian Caire One hundred and nineteen pounds muriatic acid—Justinian Caire Two hundred pounds sulphuric acid—Justinian Caire One platinum dish—Justinian Caire  \$45 50 One platinum dish—Justinian Caire  29 50	
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	74 <b>4</b> 2
\$75 00	74 42
Discount	
\$75 00	74 42
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Discount	74 42 \$231 49 \$6 40 \$3 15 50 3 10 6 00
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Discount	\$231 49 \$86 40 \$3 15 50 3 10 6 00 75 50 10 2 40 25 4 00
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Discount	74 42 \$231 49 \$6 40 \$3 15 50 3 10 6 00 75 · 50 10 2 40 4 00 75 50 4 00 75 1 35
Discount	\$231 49 \$231 49 \$6 40 \$3 15 50 3 10 6 00 75 50 10 2 40 250 4 00 75 1 35 1 00
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Discount	74 42 \$231 49 \$6 40 \$3 15 50 3 10 6 00 75 · 50 2 40 2 40 2 50 4 00 75 1 35 1 00 50
Discount	74 42 \$231 49 \$6 40 \$3 15 50 3 10 6 00 75 50 10 2 40 25 50 4 00 75 1 35 1 00 \$1 35 1 00 \$2 40 \$2 40 \$2 50 \$1 00 \$1 000 \$1 0
Discount	74 42 \$231 49 \$6 40 \$3 15 50 3 10 6 00 75 · 50 10 2 40 25 50 4 00 75 1 35 1 00 50 \$24 85

ayroll for June, 1890ayroll for June, 1890—Tulare Station		\$20 1
	_	\$422
PPENDIX No. 3 F—Agricultural Experiment Stations—Postage and Stations	onery. =	
ostage, Amador Station—Geo. Hansen		\$1
ADDITION No. 2 (1 Aquiaultural Francisco et Stationa Cumplica		
APPENDIX No. 3 G—Agricultural Experiment Stations—Supplies.		
hirty feet T. and G. redwood—San Joaquin Lumber Co		\$1
eventeen feet surfaced redwood—San Joaquin Lumber Co.		
ighty-nine feet redwood—San Joaquin Lumber Co.		2
hirty-two feet clear pine wo empty barrels—S. Goldman & Co. wenty-four pounds iron—S. Goldman & Co.		1 4
wenty-four pounds iron—S. Goldman & Co.		ī
rews		_
all twine		10
ill of C. Reinwald for books (93.35 francs) wo volumes Agricultural Science—Hunt & Eaton		18 5
ostage on same—Hunt & Eaton		•
ostage on same—Hunt & Eaton ne volume Quantitative Analyses—Hunt & Eaton		
ostage on same—Hunt & Eaton ne thousand seven hundred and five pounds hay—Geo. H. Rinehart & ne hundred and eighty pounds barley—E. Ginocchio & Bro	Bros.	· 21
ne hundred and eighty pounds barley—E. Ginocchio & Bro		3
ailroad charges and teaming—E. Ginocchio & Bro.		12
ailroad charges and teaming—E. Ginocchio & Bro. xpressage—E. Ginocchio & Bro. ard oil—E. Ginocchio & Bro. hain—E. Ginocchio & Bro.		1
hain—E. Ginocchio & Bro.		
ock—E. Ginocchio & Bro		
even and one half pounds babbitt metal—E. Ginocchio & Bro.		
mory—E. Ginocchio & Bro. ubber packing—E. Ginocchio & Bro.		
ails—E. Ginocchio & Bro.		
ne belt punch—E. Ginocchio & Bro.		
xty-three pounds bran—E. Ginocchio & Bro		
adils—E. Ginocchio & Bro.  ne belt punch—E. Ginocchio & Bro.  xty-three pounds bran—E. Ginocchio & Bro.  fifty paper bags—E. Ginocchio & Bro.  our pounds babbitt metal—E. Ginocchio & Bro.  ne hundred and sixty-five pounds barley—E. Ginocchio & Bro.  ne hoe—E. Ginocchio & Bro.		
ne hundred and sixty-five pounds barley—E. Ginocchio & Bro		2
ne hoe—E. Ginocchio & Bro. wenty-four pounds nails—E. Ginocchio & Bro.		1
ive gallons fire-proof paint—J. M. Levy		6
on rod—J. M.· Levy		_
wenty-five pounds white lead—J. M. Levyne hundred and seventy-five pounds barley—J. M. Levy	<del>-</del>	1
ne nundred and seventy-nye pounds pariey—J. M. Levy		3 1
eventy-five pounds spikes—J. M. Levy		$\hat{2}$
en pounds nails—J. M. Levy		•
aint brushes—J. M. Levy venty-five pounds spikes—J. M. Levy en pounds nails—J. M. Levy x hundred and sixty feet lumber—L. Newman & Co. ne thousand one hundred and thirty-six feet lumber—L. Newman & Co.		9 25
hree tons barley hav—R. D. Cruickshank		18
wo tons barley hay—R. D. Cruickshank		12
ive gallons kerosene—George F. Bell		1 2
ne thousand and ten pounds ground barley—George F. Bell		10
ne thousand one nundred and thirty-six feet lumber—L. Newman & Cohrece tons barley hay—R. D. Cruickshank wo tons barley hay—R. D. Cruickshank ive gallons kerosene—George F. Bell ive cans squirrel poison—George F. Bell ne thousand and ten pounds ground barley—George F. Bell seswax—George F. Bell setor oil—George F. Bell		
osin—George F. Bell nk—George F. Bell		
allow—George F. Bell		
nk—George F. Bell allow—George F. Bell Bill of Henry W. Taylor:	94.00	
wo hundred and thirty-four feet lumber	\$4 68 25 00	
fill work	4 00	
artage	50	
<del>-</del>	\$34 18	
Discount	18	
		34
ne Prescott Prox Annual—D. Van Nostrand Co		1
USUAGE OH SAINE-D. VAIL MUSULANU OU		

APPENDIX No. 3 H—Agricultural Experiment Stations—Scientific Instruments.	
Bill of Charles C. Riedy: One Bausch & Lomb universal stand, with A and C eyepieces	
One Bausch & Lomb professional objective, \(\frac{1}{8}\)-inch	
One Bausch & Lomb professional objective, 1-inch30 00One Bausch & Lomb professional objective, 1-inch18 00One Bausch & Lomb professional objective, 1-inch15 00	
One Bausch & Lomb professional objective, 1-inch	
\$135 <b>0</b> 0	
Less 10 per cent	<b>\$</b> 121 <b>4</b> 0
=	φ121 ±0
APPENDIX No. 3 I—Agricultural Experiment Stations—Traveling Expenses.	
Traveling expenses, May and June, 1889—W. G. Klee	<b>\$42</b> 50
Traveling expenses, May and June, 1889—W. G. Klee.  Traveling expenses, June, 1889—E. W. Hilgard  Twenty second-hand sacks—W. G. Klee	41 20 80
-	
APPENDIX No. 3 J—Agricultural Experiment Stations—Water Supply.	\$84 50
2.0	<b>e</b> ve 00
One hundred and fifty feet extra hose—Woodin & Little Three sets couplings—Woodin & Little. Six bands—Woodin & Little.	\$36 00 1 50
Six bands—Woodin & Little	75
Cartage on same—Woodin & Little New lining to cylinder—Woodin & Little	35 7 50
Four 5-inch leathers—Woodin & Little Thirty-three feet 4-ply rubber belt—Woodin & Little	2 (0
Thirty-three feet 4-ply rubber belt—Woodin & Little	
· ·	7 13
One 2-inch Y—Woodin & Little	1 00
Fifty-one 1-inch ells—Woodin & Little	1 10 75
Four tees—Woodin & Little	1 20
Seven hundred and eighty feet 2-inch pipe—Woodin & Little	82 1 17
One 13-inch bend—Woodin & Little Fifty-one 3-inch ells—Woodin & Little Four tees—Woodin & Little Eighteen plugs—Woodin & Little Seven hundred and eighty feet 2-inch pipe—Woodin & Little One hundred and eighty feet 13-inch pipe—Woodin & Little Three for—Woodin & Little	21 15
Three fig—Woodin & Little	5 40 40
Three fig—Woodin & Little One 2-inch tee—Woodin & Little Two 1-inch service cocks—Woodin & Little One 2-inch bibb—Woodin & Little	1 50
One a inch bibb—Woodin & Little	85 10
Six 2-inch tees—Woodin & Little  'Twelve 2-inch nipples—Woodin & Little	2 10
Twelve 2-inch nipples—Woodin & Little	1 65 50
Three 2-inch caps—Woodin & Little.  Nine feet pipe, and cutting and fitting—Woodin & Little.  Three bushings—Woodin & Little.	2 69
Three bushings—Woodin & Little	45 30
Three nipples—Woodin & Little Four 1-inch garden valves—Woodin & Little One 2-inch union—Woodin & Little	4 00
One 2-inch union—Woodin & Little	45 50
Two 2-inch ells—Woodin & Little Three 1-inch ells—Woodin & Little	20
Three 1-inch ells—Woodin & Little.  Two 2-inch sockets—Woodin & Little	30
One 2-inch wrought bend—Woodin & Little  Two 11-inch ells—Woodin & Little	1 50 35
Two 1½-inch ells—Woodin & Little Four 1-inch tees—Woodin & Little Packing and cartage on same—Woodin & Little	60
Packing and cartage on same—woodin & Little	200
APPENDIX No. 3 K—Agricultural Experiment Stations—Labor.	\$224 09
Payroll for month of July Page Robles Station	\$54 00 93 42
Labor for month of July Payroll for month of July, Paso Robles Station Payroll for month of July, Amador Station Payroll for month of July, Tulare Station	128 60
Payroll for month of July, Tulare Station	88 00 24 00
Labor for month of August.  Payroll for month of August, Paso Robles Station	44 98
Payroll for month of August, Tulare Station Payroll for month of August, Amador Station	33 00
Labor for month of September	100 15 34 00
Labor for month of September.  Payroll for month of September, Paso Robles Station  Payroll for month of September, Tulare Station  Payroll for month of September, Amador Station	62 30
Payroll for month of September, Tulare Station	34 00 110 55
Labor for month of October Payroll for month of October, Paso Robles Station	188 40
Payroll for month of October, Paso Robles Station	91 71

Payroll for month of October, Tulare Station	\$54 00
Labor, picking grapes—Isidor Le Duc	26 25
Labor—Isidor Le Duc	7 50
Payroll for month of November, Paso Robles Station	129 75
Payroll for month of October, Amador Station	110 20
Labor for month of November	100 00
Payroll for month of November, Amagor Station.	105 30 50 00
Payroll for month of December, Tulate Station	50
Payroll for month of November, Tulare Station Payroll for month of December, Tulare Station Payroll for month of December, Paso Robles Station	86 54
Labor for month of December	66 00
Labor for month of December. Payroll for month of December, South California Station	94 00
Labor—Isidor Le Duc Payroll for month of January, Tulare Station	2 60
Payroll for month of January, Tulare Station	75 00
Labor for month of January Payroll for month of December, Amador Station	<b>54 00</b>
Payroll for month of December, Amador Station	107 15
Payroll for January, Pomona Station	251 00
Payroll for January, Amador Station	106 80
Payroll for February, Tulare Station	83 04 92 00
Payroll for February Pass Robles Station	83 04
Payroll for February, Paso Robles Station Payroll for February, Amador Station	83 60
Labor for February	48 00
Payroll for month of February, Pomona Station	100 00
Labor for month of March	52 00
Labor for February Payroll for month of February, Pomona Station Labor for month of March Payroll for month of March, Tulare Station	103 00
Payroll for month of March, Amador Station	, 89 30
Payroll for month of March, Amador Station Payroll for month of March, Paso Robles Station Payroll for month of March, South California Station	103 84
Payroll for month of March, South California Station	100 00
Labor for month of April South California Station	52 156 00
Payroll for month of April, Paso Robles Station	135 00
Payroll for month of April A mador Station	100 15
Payroll for month of April Tulare Station	91 00
Two days' labor—R. P. Hill	3 50
Payroll for month of May, Tulare Station	98 00
	04 88
Payroll for month of May, Paso Robles Station	84 77
Payroll for month of April, Amador Station Payroll for month of April, Tulare Station Two days' labor—R. P. Hill Payroll for month of May, Tulare Station Payroll for month of May, Paso Robles Station Payroll for month of May, South California Station	102 00
rayron for month of may, south Camornia Station	102 00 52 00
Payroll for month of May, Paso Robles Station Payroll for month of May, South California Station Labor for month of May. Payroll for month of May, Amador Station	102 00
rayron for month of may, south Camornia Station	102 00 52 00 101 70
Labor for month of May.  Payroll for month of May, Amador Station	102 00 52 00
Labor for month of May.  Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.	102 00 52 00 101 70
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.	102 00 52 00 101 70 \$4,477 14 \$3 14
Appendix No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Ninety-six feet pine—Salinas Valley Lumber Co.	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Ninety-six feet pine—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.  Fifty feet molding—Salinas Valley Lumber Co.  Galvanized vent tubes to gas stoves—John J. Menges  One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J.	102 00 52 00 101 70 \$4,477 14 \$3 17 5 10 50 9 00
Labor for month of May.  Payroll for month of May, South Camorina Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Ninety-six feet pine—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.  Fifty feet molding—Salinas Valley Lumber Co.  Galvanized vent tubes to gas stoves—John J. Menges  One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J.  Brown	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Ninety-six feet pine—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.  Fifty feet molding—Salinas Valley Lumber Co.  Galvanized vent tubes to gas stoves—John J. Menges  One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J.	102 00 52 00 101 70 \$4,477 14 \$3 17 5 10 50 9 00
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson.	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92
Labor for month of May, Payroll for month of May, Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson.  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92 2 50
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson.	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92 2 50
Labor for month of May, Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92 2 50 \$66 33
Labor for month of May, Payroll for month of May, Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92 2 50 \$66 83
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Ninety-six feet pine—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.  Fifty feet molding—Salinas Valley Lumber Co.  Galvanized vent tubes to gas stoves—John J. Menges  One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J.  Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire—  Corrosive sublimate—Justinian Caire—	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92 2 50 \$66 83 \$1 86 1 00
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co.  Ninety-six feet pine—Salinas Valley Lumber Co.  Three hundred shakes—Salinas Valley Lumber Co.  Fifty feet molding—Salinas Valley Lumber Co.  Galvanized vent tubes to gas stoves—John J. Menges  One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J.  Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire—  Corrosive sublimate—Justinian Caire—	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92 2 50 \$66 83
Labor for month of May, Payroll for month of May, Appendix No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson.  Appendix No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire. Corrosive sublimate—Justinian Caire. Four pounds chromic acid—Justinian Caire One pound Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds Mg. oxide—Justinian Caire	102 00 52 00 101 70 \$4,477 14 \$3 14 3 17 5 10 50 9 00 42 92 2 50 \$66 83 \$1 36 1 00 1 20
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire One pound Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds Mg. oxide—Justinian Caire Ten pounds black oxide manganese—Justinian Caire Ten pounds black oxide manganese—Justinian Caire	\$1 200 52 00 101 70 \$4,477 14 \$3 14 \$3 17 5 10 50 9 00 42 92 2 50 \$66 83 \$1 86 1 00 1 20 1 80 3 00 9 90
APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire One pound Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds Mg. oxide—Justinian Caire Ten pounds black oxide manganese—Justinian Caire Ten pounds black oxide manganese—Justinian Caire	\$3 14 \$3 17 \$5 10 \$5 10 \$3 17 \$5 10 \$50 \$9 00 \$42 92 \$2 50 \$66 33 \$1 36 \$1 00 \$1 20 \$1 80 \$3 00 \$2 40
Labor for month of May, Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown. Repairing sink—T. C. Jameson.  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds ether—Justinian Caire Three pounds ether—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire	\$102 00 52 00 101 70 \$4,477 14 \$3 14 \$3 17 5 10 50 9 00 42 92 2 50 \$66 83 \$1 36 1 00 1 20 1 80 3 00 9 00 2 40
Labor for month of May, Payroll for month of May, Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds black oxide manganese—Justinian Caire Three pounds chloroform—Justinian Caire	\$1 20 00 52 00 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 101 70 70 70 70 70 70 70 70 70 70 70 70 70
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Tone pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds Mg. oxide manganese—Justinian Caire Three pounds chloroform—Justinian Caire One pound molyblic acid—Justinian Caire One pound molyblic acid—Justinian Caire One pound molyblic acid—Justinian Caire	\$3 14 \$3 17 \$5 10 \$5 00 \$101 70 \$4,477 14 \$3 17 \$5 10 \$50 9 00 42 92 2 50 \$66 83 \$1 86 1 00 1 20 2 40 2 40 2 20 2 25
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown. Repairing sink—T. C. Jameson.  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds ether—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Acetic acid—Justinian Caire One pound molybdic acid—Justinian Caire Five pounds ammonium nitrate—Justinian Caire Five pounds ammonium nitrate—Justinian Caire	\$1 2 00 52 00 101 70 \$4,477 14 \$3 14 \$3 17 5 10 50 9 00 42 92 2 50 \$66 83 \$1 86 1 00 1 20 1 20 2 40 2 40 2 20 2 25 1 60
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds mybdic acid—Justinian Caire One pound molybdic acid—Justinian Caire Five pounds ammonium nitrate—Justinian Caire Five pounds iyer of sulphur—Justinian Caire Two pounds liver of sulphur—Justinian Caire	\$3 14 \$3 17 \$5 10 \$5 00 \$101 70 \$4,477 14 \$3 17 \$5 10 \$50 9 00 42 92 2 50 \$66 83 \$1 86 1 00 1 20 2 40 2 40 2 20 2 25
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds and supplies caid—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds and supplies caid—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds ammonium nitrate—Justinian Caire Five pounds ammonium nitrate—Justinian Caire Five pounds ammonium nitrate—Justinian Caire Two pounds liver of sulphur—Justinian Caire Potassium nitrate—Justinian Caire Zinc dust—Justinian Caire Zinc dust—Justinian Caire	\$3 14 \$3 17 \$10 \$00 \$101 70 \$4,477 14 \$3 17 \$ 10 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds caid—Justinian Caire Three pounds ammonium nitrate—Justinian Caire Five pounds ammonium nitrate—Justinian Caire Potassium nitrate—Justinian Caire Potassium nitrate—Justinian Caire Zinc dust—Justinian Caire	\$1 200 \$52 00 \$101 70 \$4,477 14  \$3 14 \$3 17 \$5 10 \$50 9 00  42 92 2 50 \$66 83  \$1 86 1 00 1 20 1 80 3 00 2 40 2 40 2 40 2 20 2 25 1 60 90 555 2 00 1 00
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds caid—Justinian Caire Three pounds ammonium nitrate—Justinian Caire Five pounds ammonium nitrate—Justinian Caire Potassium nitrate—Justinian Caire Potassium nitrate—Justinian Caire Zinc dust—Justinian Caire	\$1 2 00 52 00 101 70 \$4,477 14 \$3 14 \$3 17 5 10 50 9 00 42 92 2 50 \$66 83 \$1 86 1 00 1 20 1 80 2 40 2 40 2 40 2 40 2 40 2 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 0
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Tone pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds olloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds black oxide manganese—Justinian Caire Three pounds bl	\$102 00 52 00 101 70 \$4,477 14  \$3 14 \$3 17 5 10 50 9 00  42 92 2 50 \$66 83  \$1 86 1 00 1 20 1 20 2 40 2 40 2 00 2 40 2 00 1 10 1 10 1 10 1 10 1 10 1 10 1 1
Labor for month of May.  Payroll for month of May, Amador Station  APPENDIX No. 3 L—Agricultural Experiment Stations—Buildings.  One hundred and twenty-two feet redwood—Salinas Valley Lumber Co. Ninety-six feet pine—Salinas Valley Lumber Co. Three hundred shakes—Salinas Valley Lumber Co. Fifty feet molding—Salinas Valley Lumber Co. Galvanized vent tubes to gas stoves—John J. Menges One thousand five hundred and sixty-one feet redwood and Oregon pine—O. J. Brown  Repairing sink—T. C. Jameson  APPENDIX No. 3 M—Agricultural Experiment Stations—Chemical Apparatus and Supplies.  Seventy-eight pounds sal soda—Justinian Caire Corrosive sublimate—Justinian Caire Four pounds chromic acid—Justinian Caire Three pounds Mg. carbonate—Justinian Caire Three pounds Mg. oxide—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds chloroform—Justinian Caire Three pounds caid—Justinian Caire Three pounds ammonium nitrate—Justinian Caire Five pounds ammonium nitrate—Justinian Caire Potassium nitrate—Justinian Caire Potassium nitrate—Justinian Caire Zinc dust—Justinian Caire	\$102 00 52 00 101 70 \$4,477 14 \$3 14 \$3 17 5 10 50 9 00 42 92 2 50 \$66 83 \$1 36 1 00 1 20 1 80 2 40 2 40 2 40 2 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 0

Two pounds ammonium carbonate—Justinian Caire One pound potassium chloride—Justinian Caire One pound potassium chlorate—Justinian Caire One pound potassium permanganese, pure—Justinian Caire One pound potassium phosphate—Justinian Caire	\$1 10 65 90 1 25 1 60
ADDENDEY No. 8 N. Agricultural Francisment Stations Foundame	\$32 61
APPENDIX No. 8 N—Agricultural Experiment Stations—Furniture.  Repairing stove front—A. Erlandsen One oak office table—West Coast Manufacturing Co. One oak cylinder desk—West Coast Manufacturing Co. Five perforated-seat chairs—West Coast Manufacturing Co. One cane-seat chair—West Coast Manufacturing Co. One oak library table—West Coast Furniture Co. One oak cylinder desk—West Coast Furniture Co. Five office chairs—West Coast Furniture Co. One screw and spring office chair—West Coast Furniture Co. One window shade—E. Hook	\$0 75 10 00 22 50 8 75 4 50 10 00 22 50 8 75 4 50 1 00
APPENDIX No. 3 0—Agricultural Experiment Stations—Fencing and Drainage.	\$93 25
Survey of McKey and Italian tract—B. Ross. Thirty pieces 1x12x14 redwood—San Joaquin Lumber Co. Three hundred and thirteen feet redwood—San Joaquin Lumber Co. Eight thousand six hundred and ninety feet wire netting—Ira F. White & Son. One thousand eight hundred and fifty-six feet redwood lumber—O. J. Brown Ten pounds wire netting staples—Ira F. White & Son. Four rolls 3-foot wire netting—Ira F. White & Son.	\$20 00 12 60 9 39 66 00 51 00 1 80 13 50 \$174 29
APPENDIX No. 3 P-Agricultural Experiment Stations-Freight and Expressage.	\$17 <del>1</del> 20
Expressage—Wells, Fargo & Co. Freight on plaster from Bakersfield—Southern Pacific Co. Freight on goods to Jackson—Woodin & Little.  Expenses tending grain exhibit—George Hansen. Expressage on pump—George Hansen. Hauling grapes to Ione—George Hansen Hauling grapes to Mountain View—J. H. McComb Freight charges, Oakland to Tulare—Southern Pacific Co. Hauling grapes—Isidor Le Duc. Hauling grapes—Isidor Le Duc.	\$1 25 6 08 10 55 1 75 1 80 1 25 36 00 4 00 1 50
	<b>\$</b> 70 <b>7</b> 8
APPENDIX No. 3 Q—Agricultural Experiment Stations—Incidental Expenses. =  Contribution toward defraying expenses of Executive Committee of the Association of Agricultural Colleges and Experiment Stations at Washington during first year—H. P. Armsby  Bill of Vilmorin Andrieux, in francs; total in dollars and cents:  Thirty egg plants, white—Francs 1.80 One hundred Guizotia oleifera 2.25 One paper vegetable seeds 4.40 One paper vegetable seeds 5.50 Four papers vegetable seeds 2.40 One paper vegetable seeds 1.00 Nine papers flower seeds 19.80 Bag, postage, and registration .75	\$25 <b>00</b>
Repairing light wagon—Clark Elliott Twelve new shoes—Clark Elliott Setting four tires—Clark Elliott One singletree—Bennett, Shackelford & LeBlanc Lap links—Bennett, Shackelford & LeBlanc Bolt—Bennett, Shackelford & LeBlanc Screen wire—Bennett, Shackelford & LeBlanc One vineyard hook—Bennett, Shackelford & LeBlanc One pair hinges—Bennett, Shackelford & LeBlanc Repairs—Bennett, Shackelford & LeBlanc Two and one quarter pounds nails—Bennett, Shackelford & LeBlanc One pair gate hinges—Bennett, Shackelford & LeBlanc Six gopher traps—Bennett, Shackelford & LeBlanc	5 82 4 25 5 25 4 00 60 20 10 40 90 15 30 1 35

Insurance premium, Tulare Station—J. C. Mitchell & Son Keeping dog—George Hansen Membership Association American Agricultural Colleges	\$18 00 1 50 10 00
	\$225 05
One thousand one hundred and thirty postage stamps—N. B. Byrne	<b>9</b> 25 00
Postage—George Hansen	\$25 00 50
Postage—George Hansen Fifty sheets double medium ruled paper—Edward Denny & Co. One half dozen pads—J. J. Evans One dozen counter blanks—J. J. Evans	2 75 50
One dozen counter blanks—J. J. Evans	1 00
One dozen exercise planksJ. J. Evans	1 00
Two bottles ink—C. Beach One bottle mucilage—C. Beach	50 1 25
_	#20 FA
APPENDIX No. 3 S—Agricultural Experiment Stations—Printing.	\$32 50
Five thousand bulletins—Dewey & Co.	\$22 50
·	
APPENDIX No. 3 TAgricultural Experiment Stations—Supplies.	
One sail cover—L. Foard	\$12 16
One sail cover—L. Foard Three and one quarter tons hay, Paso Robles Station—Thomas Huey Three papers pins—Geo. F. Bell	29 25 25
Wax—Geo. F. Bell Chimney—Geo. F. Bell Three pounds twine—Geo. F. Bell	20
Chimney—Geo. F. Bell Three pounds twine—Geo. F. Bell	20 1 05
One ton nay—Mrs. A. E. Cotton	6 00
Three cords wood—Andrew Jacobson One ton alfalfa hay—O. F. Manock	13 50 5 50
One ton alfalfa hay—O. F. Manock. Two pairs blankets—O'Connor, Moffatt & Co. Three joints stove-pipe—John J. Menges.	6 00
Two pairs blankets—O'Connor, Moffatt & Co.	13 00 1 05
Two ells—John J. Menges	70
Two ells—John J. Menges Fifty pounds lime—Geo. E. Colby Lock-knobs and screws—J. McClain Hinges and spraye—I. McClain	75 85
Hinges and screws—J. McClain	25
Hinges and screws—J. McClain Bill of Edward G. Allen, in pounds, shillings, and pence; total in	
dollars and cents: s. d. Church's "Laboratory Guide" 5 0	
Allen's "Organic Analysis" 10 6	
Wenklyn's "Water Analysis" 3 10 Sutton's "Volumetric Analysis" 12 0	
Fresenius' "Qualitative" 11 8	
Fresenius' "Quantitative," Vol. I	
Warikler's "Gas Analysis" 5 3	
Fresenius' "Quantitative" 4 0 Hehner's "Alcohol Tables" 2 8	
Carpenter's "The Microscope" (sixth ed.) 15 0	
Commission, 7½ per cent, and postage14 7	26 29
Ink and blotting pads—Geo. F. Bell———————————————————————————————————	45
Wine and rong—Goo F Rell	27 24 1 10
Bell Twine and rope—Geo. F. Bell One broom—Geo. F. Bell	20
One box—Geo. F. Bell. Six thousand one hundred and twenty pounds hay, Paso Robles Station—	50
Thomas Huey	27 55 12 00
Nineteen hundred and eighty-five pounds ground barley—J. Goldman & Co	24 82
Salt—J. Goldman & Co. One gallon oil—J. Goldman & Co.	12 1 25
Demijohn—J. Goldman & Co.	1 00
Demijohn—J. Goldman & Co. Three hundred and four feet Oregon pine—San Joaquin Lumber Co.	9 12
Seven feet redwood—San Joaquin Lumber Co. One leather—Woodin & Little	32 1 00
Postage on same—Woodin & Little	08
Nine pairs T hinges—Jos. McClain Ten dozen screws—Jos. McClain	90 60
Ten dozen screws—Jos, McClain Seventeen hundred and ninety pounds land plaster—W. H. Fauntleroy One hundred and fifteen pounds grapes—George Hansen	13 42
One numered and inteen pounds grapes—George Hansen	3 45

One spade—Hawley, King & Co. One dozen saw files—Hawley, King & Co. One flat file—Hawley, King & Co. One half-round file—Hawley, King & Co. One horse rasp—Hawley, King & Co. One claw hatchet—Hawley, King & Co. One shingling hatchet—Hawley, King & Co. One screwdriver, 10-inch—Hawley, King & Co. Two dividers, 8-inch—Hawley, King & Co. One auger handle—Hawley, King & Co. One posthole auger—Hawley, King & Co. One posthole auger—Hawley, King & Co. One bench vise and anvil combined—Hawley, King & Co. Two wrenches—Hawley, King & Co. One pair wire pliers—Hawley, King & Co. Two copper oilers—Hawley, King & Co. Two 2-foot rules—Hawley, King & Co. One measuring tape—Hawley, King & Co. One steel square—Hawley, King & Co. One steel square—Hawley, King & Co. One atchet brace and bits—Hawley, King & Co. One dozen papers tacks—Hawley, King & Co. One dozen chalk lines—Hawley, King & Co. One dozen chalk lines—Hawley, King & Co. One scoop shovel—Hawley, King & Co. One hundred and twenty-five pounds assorted nails—Hawley, King & Co. Two 3-gallon water pots—Hawley, King & Co. One set draughtsman's tools—Hawley, King & Co. One set draughtsman's tools—Hawley, King & Co. One scoop shovel—Hawley, King & Co. One set draughtsman's tools—Hawley, King & Co. One scoop space—Hawley, King & Co.	\$0.8
One dozen saw files—Hawley, King & Co	5
One half-round file—Hawley, King & Co.	5 5
One horse rasp—Hawley, King & Co.	5
One claw hatchet—Hawley, King & Co.	5
One shingling hatchet—Hawley, King & Co.	5
One screwdriver, 10-inch—Hawley, King & Co.	3
One enger handle—Hawley, King & Co.	3
One posthole auger—Hawley, King & Co.	2 2
Four gross screws—Hawley, King & Co.	1 2
One bench vise and anvil combined—Hawley, King & Co.	50
Two wrenches—Hawley, King & Co.	1 1
One pair wire pliers—Hawley, King & Co.	10
Two 2-foot rules—Hawley, King & Co.	6
One measuring tape—Hawley, King & Co.	8
One plumb and level—Hawley, King & Co.	1 0
One steel square—Hawley, King & Co.	7
One ratchet brace and bits—Hawley, King & Co.	3 7
One dozen chalk lines—Hawley, King & Co	3: 5:
Six balls hemp twine—Hawley, King & Co.	7
One scoop shovel—Hawley, King & Co.	1 2
One hundred and twenty-five pounds assorted nails—Hawley, King & Co	5 0
Two 3-gallon water pots—Hawley, King & Co.	4 0
One set droughtsman's tools Hawley King & Co.	2 44 2 0
One architect square—Hawley, King & Co.	2 0
Two pairs patent pipe tongs—Hawley, King & Co.	3 0
One draw knife—Hawley, King & Co.	78
One washer cutter—Hawley, King & Co.	1 0
Two pruning knives—Hawley, King & Co.	6
One currycomb—Hawley, King & Co.	50 28
One lantern—Hawley, King & Co.	71
One oil can—Hawley, King & Co.	50
One set draughtsman's tools—Hawley, King & Co. One architect square—Hawley, King & Co. Two pairs patent pipe tongs—Hawley, King & Co. One draw knife—Hawley, King & Co. One washer cutter—Hawley, King & Co. One washer cutter—Hawley, King & Co. One horse brush—Hawley, King & Co. One currycomb—Hawley, King & Co. One lantern—Hawley, King & Co. One oil can—Hawley, King & Co. One oil can—Hawley, King & Co. One stable fork—Hawley, King & Co. One stable broom—Hawley, King & Co. One stable broom—Hawley, King & Co. One stable pails—Hawley, King & Co. One saw set—Hawley, King & Co. Seven hundred and fifty pounds seed barley—John H. Graber Five hundred and eighty-nine feet lumber—F. M. Whitmore Six hundred and two feet clear cedar—F. M. Whitmore	54
One stable broom—Hawley, King & Co.	50
Two stable pails—Hawley, King & Co	1 00 78
Cartage—Hawley, King & Co.	1 00
Seven hundred and fifty pounds seed barley—John H. Graber	11 6
Five hundred and eighty-nine feet lumber—F. M. Whitmore	13 2
Six hundred and two feet clear cedar—F. M. Whitmore Halter strap and repairing collar—E. L. Freeman Breast strap slides—E. L. Freeman Neckyoke center—E. L. Freeman	18 0
Halter strap and repairing collar—E. L. Freeman	78
Neckyoke center—E. L. Freeman	25 1 50
Laces—E. L. Freeman	50
Repairing bridle—E. L. Freeman	2
Laces—E. L. Freeman Repairing bridle—E. L. Freeman Paper—E. L. Freeman	1 00
Box of pens—E. L. Freeman	78
Strap slides—E. L. Freeman	25 18
One light glass—E. L. Freeman	2
One lantern—J. M. Levy	1 78
One lantern—J. M. Levy One package screws—J. M. Levy	1 25
Coal oil—I W Lovy	1 50
Chisel—J. M. Levy	90
Av I M Lover	30 1 00
Chiael—J. M. Levy Wire—J. M. Levy Ax—J. M. Levy Hatchet handle—J. M. Levy	10
Currycomb—J. M. Levy	26
Currycomb—J. M. Levy	50
Salt—J. M. Levy	50
Gimlet—J. M. Levy	50 25
Three shoes—Cox & Williams	1 50
Four rods and eight ties—Cox & Williams	3 50
Five shoes—Cox & Williams	2 50
Oil cans—J. M. Levy Three shoes—Cox & Williams Four rods and eight ties—Cox & Williams Five shoes—Cox & Williams Two joints terracotta pipe—J. R. Hewitt	2 50
Gaivanized wire—J. R. Hewitt	50
Repairs—J. R. Hewitt———————————————————————————————————	25 75
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	10

Kettle-J. R. Hewitt	<b>\$</b> 2	50
Ticking—J. M. Levy	2	27
Ticking—J. M. Levy Ground barley—J. M. Levy	1	
Saddle blanket—J. M. Levy	î	
Saddle Danker-J. M. Levy		
Cost off—J. M. Levy	1	
screws—J. M. Levy	1	
Coal oil—J. M. Levy. Screws—J. M. Levy. Pruning knife—J. M. Levy.	1	
Broom—J. M. Levy.  One keg white lead—J. M. Levy.  Two gallons boiled oil—J. M. Levy.  Fifteen pounds limestone—J. M. Levy  Eight bolts—E. Ginocchio & Bro.		50
One keg white lead—J. M. Levy	2	50
Two gallons boiled oil—J. M. Levy	1	
Fifteen nounds limestone—I M Levy	$\tilde{2}$	
Fight holts T Cincachie & Pro		88
Eight botts—E. Ginocento & Dio.		
img-12. Cittocomo & Divinina de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como de Como d		25
Nails—E. Ginocchio & Bro.		50
Washers—E. Ginocchio & Bro.		25
Washers—E. Ginocchio & Bro. Five gallons boiled oil—E. Ginocchio & Bro.	4	50
Tree gartons boried of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment o		<b>2</b> 0
Fifteen pounds red paint—E. Ginocchio & Bro		<b>7</b> 5
The pound of Cincohic & Bro	1	ᄶ
Liniment—E. Ginocino & Bro.	1	
One nundred and twenty pounds barley—E. Ginoconio & Bro	2	99
Brush—E. Ginocchio & Bro.	1	
Fifteen pounds red paint—E. Ginocchio & Bro		75
Auger—E. Ginocchio & Bro	2	85
White lead—E. Ginocchio & Bro	2	ξÕ
Four hundred and forty-five nounds seed barley. F. Ginocchio & Bro	9	ξŘ
One window E Cincockie & Dro	0	OF.
One window—E. Ginoccino & Bro.	2 2	20
rour pairs ninges—E. Ginocchio & Bro.	2	ĠÜ
White lead—E. Ginocchio & Bro.  Four hundred and forty-five pounds seed barley—E. Ginocchio & Bro.  One window—E. Ginocchio & Bro.  Four pairs hinges—E. Ginocchio & Bro.  Ninety-five pounds barley—E. Ginocchio & Bro.  Twenty pounds nails—E. Ginocchio & Bro.	2	01
Twenty pounds nails—E. Ginocchio & Bro	1	00
Hooks and locks—E. Ginocchio & Bro.		10
Hinges—E. Ginocchio & Bro.	ĩ	
Saw—E. Ginocchio & Bro.	î	
Dalta D Cimagabia & Dua		ű
Bolts—E. Ginocchio & Bro.		25
Pencils—E. Ginocchio & Bro.		50
Basket—E. Ginocchio & Bro.		50
Urnstone—E. Ginocchio & Bro. Chain—E. Ginocchio & Bro.		15
Chain—E. Ginocchio & Bro.		50
Repairs—E. Ginocchio & Bro.		25
Renairing traces—I R McCain	1	៳
Repairing traces—J. R. McCain One leather strap—J. R. McCain		
One teather strap—J. R. McCain		50
Repairing bridle-J. R. McCain	_ :	25
One ton alfalfa hay—O. F. Manock.  Three and one half cords word—Andrew Jacobson  Two thousand three hundred and fifteen pounds hay—Geo. H. Rinehart & Bros.	6	
Three and one half cords word—Andrew Jacobson———————————————————————————————————	17	
Two thousand three hundred and fifteen pounds hav—Geo. H. Rinehart & Bros.	23	15
Turpentine—J. M. Levy		50
Boiled oil—J. M. Levy	1	ñ
		<b>7</b> 5
Padlock—J. M. Levy		
Coal oil—J. M. Levy Plow—J. M. Levy	1	
Plow—J. M. Levy	5	
Oil can—J. M. Levy		50
Ink-J. M. Levy	,	75
Pens—J. M. Levy One hundred and sixty pounds barley—J. M. Levy		25
One hundred and sixty pounds barley—J. M. Levy	2	
Sheets and nillow cases—I M Levy	4	
Twing I M Lower		<del>50</del>
Sheets and pillow cases—J. M. Levy Twine—J. M. Levy Powder and shot—J. M. Levy		75
Toward and shot—J. M. Levy		
Nalis-J. M. Levy	_ '	50
Nails—J. M. Levy Four horseshoes—Cox & Williams Repairing brake—Cox & Williams	2	
Repairing brake—Cox & Williams		50
Neven shoes—Cox & Williams	3	
Bolts—Cox & Williams_ Repairing neckyoke—Cox & Williams_		50
Renairing neckyoka Cov & Williams		5ŏ
Renairing heats—Cov & Williams		50 50
Repairing brake—Cox & Williams Repairing brake—Cox & Williams		
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		<u>50</u>
Fuse and handle—E. Ginocchio & Bro.	1 :	
Nails—E. Ginocchio & Bro.		25
Axle grease—E. Ginocchio & Bro. One thousand four hundred and eighty pounds hay—G. H. Rinehart & Bros.		50
One thousand four hundred and eighty pounds hav—G. H. Rinehart & Bros	14	80
One thousand two hundred and fifty pounds hav-G. H. Rinehart & Bros.	12	
One thousand two hundred and fifty pounds hay—G. H. Rinehart & Bros Eighty pounds barley—J. M. Levy	1	
Three shoes—J. M. Levy	î	
Chargeal Hawitt Dass		
Charcoal—Hewitt Bros. Trysquare and gimlet—Hewitt Bros.		25
rysquare and gimiet—Hewitt Bros.	1	
One thimble—Hewitt Bros.		<b>0</b> 0
Three joints pipe—Hewitt Bros.	1 :	
One 8 inch hit Tramitt Dags		o K

One bit F C Framen	*0.5
One bit—E. G. Freeman	<b>\$</b> 0 5
One halter—E. G. Freeman	2
Lacestrings—E. G. Freeman	5
Repairing saddle—E. G. Freeman	10
Envelopes—E. G. Freeman	i
Variet B.C. Passen	
Varnish—E. G. Freeman Pencils and envelopes—E. G. Freeman	8
Pencils and envelopes—E. G. Freeman	7
Brass nails—E. G. Freeman	5
Two chair seats—E G Freeman	5
Tamp shade F C Freeman	i
Lamp shade—E. G. Freeman	
Two chair seats—E. G. Freeman Lamp shade—E. G. Freeman Two runners for sled—Cox & Williams	20
Repairing sled runner—Cox & Williams	2
Two bottles—Cox & Williams One pair gate hinges—Cox & Williams	5
One neir gete hingesCov & Williams	2 0
One pair gate images—Ova & Williams	
One clasp—Cox & Williams Eight peg pockets—Cox & Williams	4
Eight peg pockets—Cox & Williams	2 0
One shoe—Cox & Williams	50
One nail set—Cox & Williams	2
One hall see—Out & withhalls	
Recording deed—George Hansen	2 0
Recording deed(Jeorge Hansen	4 00
Notary's fees—George Hansen One keg white lead—E. Ginocchio & Bro. Five gate hooks and eyes—E. Ginocchio & Bro.	50
One kee white lead F. Ginoschio & Bro	2 0
The way to be be and a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second	
Five gate nooks and eyes—E. Ginocono & Bro	50
Hasps—E. Ginocchio & Bro.	2
Turpentine—E. Ginocchio & Bro.	1 00
Hasps—E. Ginocchio & Bro. Turpentine—E. Ginocchio & Bro. Broom—E. Ginocchio & Bro.	3
Obelin To Cincockie & Discockie	
Chair—E. Ginocchio & Bro.	20
Nails—E. Ginocchio & Bro. Forty feet flooring—E. Ginocchio & Bro.	1 00
Forty feet flooring—E. Ginocchio & Bro.	1 60
Rolled oil F Ginoschio & Bro	1 2
Boiled oil—E. Ginocchio & Bro. Eighty-one pounds barley—E. Ginocchio & Bro. Ninety-five pounds barley—E. Ginocchio & Bro.	
Eighty-one pounds pariey—E. Ginocchio & Bro.	1 62
Ninety-five pounds barley—E. Ginocchio & Bro.	1 90
Nails—E. Ginocchio & Bro.	3 25
Horse liniment—E. Ginocchio & Bro. Two pairs butts—E. Ginocchio & Bro.	2
The same but a Discoult & Day	
I wo pairs butts—E. Ginocchio & Bro.	50
One can coal oil—J. M. Levy	1 50
Kettle—J. M. Levy	1 25
Selt_T M Lavy	78
One ships I Com & Williams	15
Kettle—J. M. Levy Salt—J. M. Levy One chisel—Cox & Williams	
One bolt—Cox & Williams  Two hundred and ninety-five pounds grapes—Cox & Williams  Bolts—E. Ginocchio & Bro.	15
Two hundred and ninety-five pounds grapes—Cox & Williams	7 05
Rolts—E. Ginocchio & Bro	8 18
Coal ail E Cincockie & Pro	1 50
Coal oil—E. Ginocchio & Bro.	
Lantern—E. Ginocchio & Bro.	1 75
Lantern—E. Ginocchio & Bro. One yard wire cloth—E. Ginocchio & Bro.	50
Stran hinges—E. Ginocchio & Bro.	35
Strap hinges—E. Ginocchio & Bro. Wheat—E. Ginocchio & Bro.	75
Walter 13. Cimocalio & Div.	
Tacks—E. Ginocchio & Bro.	60
Freight—E. Ginocchio & Bro.	55
Bolts—E. Ginocchio & Bro.	1 92
Washers—E. Ginocchio & Bro.	50
Stanlar E Cincachia & Pro	25
Staples—E. Ginocchio & Bro. One angle iron—Cox & Williams	
One angle iron—Cox & Williams	1 00
Six shoes—Cox & Williams	3 00
One pair hinges—Cox & Williams	1 00
Two holts Cox & Williams	25
TWO DUIS OUR WHITEHIS	9 20
Inree nundred and twenty-two feet fumber—F. M. whitmore	
Two mail pouches—George Hansen	1 00
Strychnine—George Hansen	50
Tan thousand three hundred and fifty-six mounds harley hav_Mrs M A	-
Mallor	103 56
mckey	
six thousand five hundred and seventy-one pounds hay—John McLelland	36 14
Three thousand pounds barley—J. H. Graber	49 50
Five hundred pounds bran—J. H. Graber	7 00
Four thousand nounds hav-I H Graher	30 00
Six shoes—Cox & Williams One pair hinges—Cox & Williams Two bolts—Cox & Williams Three hundred and twenty-two feet lumber—F. M. Whitmore Two mail pouches—George Hansen Strychnine—George Hansen Ten thousand three hundred and fifty-six pounds barley hay—Mrs. M. A. McKey Six thousand five hundred and seventy-one pounds hay—John McLelland Three thousand pounds barley—J. H. Graber Five hundred pounds hay—J. H. Graber Four thousand pounds hay—J. H. Graber Three tons alfalfa hay—John Bauman	
Three tons analia hay-John Dauman	18 00
Three tons alfalfa hay—John Bauman Twenty-five pounds white lead—C. H. Marshall & Co.	2 50
Five gallons linseed oil—C. H. Marshall & Co.	3 75
Nails—E. Ginocchio & Bro.	50
Coal oil C F Ball	1 75
OURI UII—U. F. Dell	
Coal oil—G. F. Bell Eight and one half pounds rope—G. F. Bell Five hundred and seventy-one pounds barley—G. F. Bell	1 70
Five hundred and seventy-one pounds barley—G. F. Bell	8 50
()no harrel coal far()akland (+ag (:))	5 75
One office map—S. W. Dunn	2 00
Days Gal Casaback	2 00
Boxes—Sol. Greenhood	
Two thousand pounds bone meal—Cox Seed and Plant Co.	28 00

Ninety-two apple trees for Pomona Station—California Nursery Co	\$13 80
Fifty pear trees for Pomona Station—California Nursery Co.	7 50
Twenty cherry trees for Pomona Station—California Nursery Co	- 4 00
Twenty prune trees for Pomona Station—California Nursery Co.	9 00 4 00
Seventy-four peach trees for Pomona Station—California Nursery Co.	14 80
Seventy-four peach trees for Pomona Station—California Nursery Co Twenty-two apricot trees for Pomona Station—California Nursery Co	4 40
Twenty-eight almond trees for Pomona Station—California Nursery Co	4 20
Twenty fig trees for Pomona Station—California Nursery Co.  Thirty-eight olive trees for Pomona Station—California Nursery Co.	8 00
Thirty-eight office trees for Pomona Station—California Nursery Co.	19 40 3 20
Eight Japanese persimmon trees for Pomona Station—California Nursery Co	2 00
Six pomegranate trees for Pomona Station—California Nursery Co.  Two carob trees for Pomona Station—California Nursery Co.	1 50
Two loquat trees for Pomona Station—California Nursery Co.	1 20
Packing trees for Pomona Station—California Nursery Co.  Twenty-five apple trees for Amador Station—California Nursery Co.	1 25
Twenty-nve apple trees for Amador Station—California Nursery Co.	3 75 50
Two quince trees for Amador Station—California Nursery Co.  Thirteen pear trees for Amador Station—California Nursery Co.  Nineteen peach trees for Amador Station—California Nursery Co.	1 95
Nineteen peach trees for Amador Station—California Nursery Co.	3 80
Ten blum trees for Amador Station—California Nursery Co.	1 80
Four prune trees for Amador Station—California Nursery Co.	80
Seven nectarine trees for Amador Station—California Nursery Co.	1 40
Six cherry trees for Amador Station—California Nursery Co.  Eleven apricot trees for Amador Station—California Nursery Co.  Two walnut trees for Amador Station—California Nursery Co.	1 20 2 20
Two walnut trees for Amador Station—California Nursery Co.	1 50
rour chestnut trees for Amador Station—California Nursery Co.	2 25
Three filbert trees for Amador Station—California Nursery Co.  Fifteen almond trees for Amador Station—California Nursery Co.	2 25
Fifteen almond trees for Amador Station—California Nursery Co.	2 25
Ten blackberry bushes for Amador Station—California Nursery Co.	1 00 1 00
Ten gooseberry bushes for Amador Station—California Nursery Co.  Ten gooseberry bushes for Amador Station—California Nursery Co.  Two currant bushes for Amador Station—California Nursery Co.	1 50
Two currant bushes for Amador Station—California Nursery Co.	1 00
Packing same—California Nursery Co.  Eleven cherry trees for Paso Robles Station—California Nursery Co.  Eight almond trees for Paso Robles Station—California Nursery Co.	50
Eleven cherry trees for Paso Robles Station—California Nursery Co.	2 20
Seventeen almond trees for Paso Robles Station—California Nursery Co.	1 20 2 55
Fifteen pear trees for Paso Robles Station—California Nursery Co.	2 25
Twelve apricot trees for Paso Robles Station—California Nursery Co	$\frac{5}{2} \frac{7}{40}$
Nine plum trees for Paso Robles Station—California Nursery Co	1 62
Eleven prune trees for Paso Robles Station—California Nursery Co.	2 20
Ten fig trees for Paso Robles Station—California Nursery Co.	3 10 2 40
Twenty-four currant bushes for Paso Robles Station—California Nursery Co.  Thirty gooseberry bushes for Paso Robles Station—California Nursery Co.  Forty blackberry bushes for Paso Robles Station—California Nursery Co.	3 50
Forty blackberry bushes for Paso Robles Station—California Nursery Co.	3 00
Baling—California Nursery Co.	50
Baling—California Nursery Co.  Twenty-two apricot trees for Tulare Station—California Nursery Co.  Fifty-four peach trees for Tulare Station—California Nursery Co.	4 40
The nectaring trees for Tulare Station—California Nursery Co.	$\begin{array}{c} 10 \ 80 \\ 2 \ 00 \end{array}$
Ten nectarine trees for Tulare Station—California Nursery Co.  Twenty plum trees for Tulare Station—California Nursery Co.  Four prune trees for Tulare Station—California Nursery Co.	3 60
Four prune trees for Tulare Station—California Nursery Co.	80
rive apple trees for Turare Station—Camorina Nursery Co.	75
Four almond trees for Tulare Station—California Nursery Co.	60
Four pear trees for Tulare Station—California Nursery Co. Two olive trees for Tulare Station—California Nursery Co. Four fig trees for Tulare Station—California Nursery Co.	60 1 00
Four fig trees for Tulare Station—California Nursery Co.	1 45
Baling—California Nursery Co.	50
Baling—California Nursery Co.  Four hundred pounds nitrate of soda—H. M. Newhall & Co.	10 99
Thirty-four orange trees for Pomona Station—Twogood & Cutter———————————————————————————————————	40 00
Wire for Tulare Station—I Forrer	7 50 50
One hundred and seventy-six feet lumber—Salinas Valley Lumber Co.	3 93
Wire for Tulare Station—J. Forrer One hundred and seventy-six feet lumber—Salinas Valley Lumber Co. One buggy cushion—T. F. Hood One can harness oil—T. F. Hood	1 75
One can harness oil—T. F. Hood.	80
One mane and tail comb—T. F. Hood One buggy washer—T. F. Hood	50
One buggy washer—T. F. Hood Twenty pounds twine—T. C. Jameson	25 2 50
One caldron—Geo. F. Bell	5 50
One caldron—Geo. F. Bell	9 25
Three hundred and five feet common lumber—F. M. Whitmore.	6 86
One can coal oil—E. Ginocchio & Bro.	1 50
Hinges and padlock—E. Ginocchio & Bro. One pound bluestone—E. Ginocchio & Bro.	1 25 15
Oil—J. V. Webster	3 45
Oil—J. V. Webster One demijohn—Julius Forrer	65
Beeswax—Julius Forrer	1 25
Five pounds wire nails—W. S. Lewis & Co.	30

Two balls twine—W. S. Lewis & Co.	. \$0
Two pounds rope—W. S. Lewis & Co. Five pounds wire nails—W. S. Lewis & Co.	
Singletree—W. S. Lewis & Co.	
Twenty-two bolts—W. S. Lewis & Co.	
Singletree—W. S. Lewis & Co.  Twenty-two bolts—W. S. Lewis & Co. One bit—W. S. Lewis & Co.	
Two cievises—w. S. Lewis & Co	
Bolts—W. S. Lewis & Co.	•
Two holts—W. S. Lewis & Co.	
Two lap links—W. S. Lewis & Co. Two bolts—W. S. Lewis & Co. One pound white lead—W. S. Lewis & Co. Plusten F. Gircarbic & R.	
White lead—E. Ginocchio & Bro. Fifteen pounds nails—E. Ginocchio & Bro.	1
Coal oil E Ginoschio & Bro.	2
Axle grease—E. Ginocchia & Bro	. 2
Eighty-seven pounds barley—E. Ginocchio & Bro.	1
Rosin—E. Ginocchio & Bro.	
Coal oil—E. Ginocchio & Bro.  Axle grease—E. Ginocchio & Bro.  Eighty-seven pounds barley—E. Ginocchio & Bro.  Rosin—E. Ginocchio & Bro.  Two cinch straps—E. L. Freeman	. 10
Breast snaps—E. L. Freeman Breast snaps—E. L. Freeman Nails, etc.—E. L. Freeman	:
Nails etc.—E. I. Freeman	1
Chisel—Cox & Williams	
Wrench—Cox & Williams	
Wrench—Cox & Williams Three shoes, No. E—Cox & Williams	1 (
Iron—Cox & Williams Five pipe joints—E. Ginocchio & Bro.	
Five packing hoves. Stewart & Trowbridge	1 2
One packing crate—I. M. McNamara	. 1
Beeswax—Dagget & Co.	
Five packing boxes—Stewart & Trowbridge One packing crate—J. M. McNamara. Beeswax—Dagget & Co. Lemon squeezer—W. Meese One packing box—J. Honer Two packing boxes—J. Honer Second-hand books—H. McAdam Mans for orchids—Carbonne & Monte	1 (
One packing box—J. Honer	. 2
Second hand booksH Mo Adam	5 (
Maps for orchids—Carbonne & Monte.	9 6
Three tons hay-J. H. Graber	48 (
Three tons hay—J. H. Graber Four hundred and sixty grape cuttings—California Nursery Co. Packing same—California Nursery Co. One thousand pear stocks—California Nursery Co. Five hundred cherry stocks—California Nursery Co. One thousand apple stocks—California Nursery Co.	4 6
Packing same—California Nursery Co.	200
One thousand pear stocks—California Nursery Co.	. 20 ( 5 (
One thousand apple stocks—California Nursery Co.	10 (
Box for same	-03
Box for same  Bill of J. L. Howland for trees:	_
Six Washington Navel	1
Four Mediterranean Sweet	
Four St. Michael's 6 00 Four Malta Blood 6 00	
Four Malta Blood 6 00 Four Hart's Tardiff 6 00	
Four Homossassa 6 00	
Four Parson Brown 6 00	
Four Magnum Bonum         6 00           Two Eureka Simons         2 50	
Two Eureka Simons         2 50           Three Lisbon         2 50	
Two Villa Franca 2 50	
	58 8
One collar with padding, for horse—Julius Forrer	3 7
Three hundred and four feet redwood—O. J. Brown.	8 3
Three hundred and four feet redwood—O. J. Brown Repairing harness—J. R. McCain Two thousand three hundred and forty grape cuttings—Ginlio Apra. Twelve barrels plaster—H. Cowell & Co. Exchange in harness, Pomona Station—J. R. McCain	1 5 25 8
Twelve barrels plaster—H. Cowell & Co.	25 a 27 (
Exchange in harness, Pomona Station—J. R. McCain	13 0
Four shoes—Charles Sears One crank and hook—Charles Sears	2 0
One crank and hook—Charles Sears	
A ID O DID GLOTROO A L'howlog Moore	1 2
One singletree—Charles Sears	1 2
One half dozen gopher traps—Ira F. White & Son  Four caps axle grease—Ira F. White & Son	1 0
One half dozen gopher traps—Ira F. White & Son————————————————————————————————————	10
One half dozen gopher traps—Ira F. White & Son Four cans axle grease—Ira F. White & Son Two hundred feet wire—Ira F. White & Son Thirty-two feet pine lumber—Salinas Valley Lumber Co.	č
One half dozen gopner traps—Ira F. White & Son—Four cans axle grease—Ira F. White & Son—Two hundred feet wire—Ira F. White & Son—Thirty-two feet pine lumber—Salinas Valley Lumber Co.————————————————————————————————————	3 6
One hair dozen gopner traps—Ira F. White & Son————————————————————————————————————	3 (
One half dozen gopher traps—Ira F. White & Son————————————————————————————————————	3 6 1 8
One half dozen gopher traps—Ira F. White & Son————————————————————————————————————	3 6 1 8
One half dozen gopner traps—Ira F. White & Son Four cans axle grease—Ira F. White & Son Two hundred feet wire—Ira F. White & Son Thirty-two feet pine lumber—Salinas Valley Lumber Co. One hundred and thirty-six feet redwood lumber—Salinas Valley Lumber Co. Eighteen feet clear lumber—Salinas Valley Lumber Co. Sixty feet refuse lumber—Salinas Valley Lumber Co. Labor on same—Salinas Valley Lumber Co. Five sacks screenings—Central Mill Co.	3 6 1 5 6 0
One half dozen gopner traps—Ira F. White & Son————————————————————————————————————	č

Setting axle on cart—Clark Elliott	
	\$1 50
Setting axle on cart—Clark Elliott Drilling holes in four bands—Cox & Williams	
Drining notes in four pands—Cox & Williams	1 20
Four shoes—Clark Elliott	. 1 50
Two plows sharpened—Clark Elliott	50
One plow point—Clark Elliott	50
Setting axle—Clark Elliott	1 50
One plow point—Clark Elliott Setting axle—Clark Elliott Two shafts for roller—Clark Elliott	1 00
Two boxes—Clark Elliott	50
Two boxes—Clark Elliott	
Tabor Clark Filicia	35
Labor-Clark Elliott	15
Ten front coulters—Baker & Hamilton	6 00
Ten front coulters—Baker & Hamilton Ten rear coulters—Baker & Hamilton	6 00
<b>-</b>	
	\$424 06
APPENDIX No. 3 V—Agricultural Experiment Stations—Traveling Expenses.	<b>VIZI 00</b>
III BROIX NO. 6 V—Ayroundu Experiment Stations—Traveling Expenses.	
Provoling expenses F W Hilgard	<b>an</b> 90
Traveling expenses—E. W. Hilgard Traveling expenses for August—F. T. Bioletti Traveling expenses for August—W. G. Klee	\$9 30
Traveling expenses for August—F. T. Bioletti	17 90
Traveling expenses for August—W. G. Klee	27 95
Traveling expenses for August—L. Paparelli  Traveling expenses for September—F. T. Bioletti  Traveling expenses for September—L. Paparelli  Traveling expenses for September—L. Paparelli	27 70
Traveling expenses for September—F. T. Bioletti	5 70
Traveling expenses for September_I. Paperelli	19 20
Traveling expenses for September—L. Paparelli	
Traveling expenses of September—II, Faparelli	2 80
Traveling expenses—E. F. Goodyear	2 20
Traveling expenses—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses for August—E. W. Hilgard	<b>42</b> 70
Traveling expenses for August—E. W. Hilgard	7 90
Traveling expenses for September—E. Kellner	. 8 50
Traveling expenses for September—E. Kellner  Traveling expenses for October—L. Paparelli	10 25
Traveling expenses for November—E. J. Wickson.	6 25
Traveling expenses for November E W Hiland	
Traveling expenses for November—E. W. Hilgard Traveling expenses for November—L. Paparelli	10 20
Traveling expenses for November—L. Paparelli	10 70
Traveling expenses for DecemberL. Paparelli.	7 85
Traveling expenses for November—C. H. Shinn Traveling expenses for November—K. McLennan	23 30
Traveling expenses for November—K. McLennan	29 30
Traveling expenses for December—C. H. Shinn	14 40
Traveling avenues for December J. Departelli	2 60
Traveling expenses for December—L. Paparelli Traveling expenses for December—E. W. Hilgard	
Traveling expenses for December—E. W. Higgsrd	21 95
Traveling expenses for October—George Hansen	20 95
Traveling expenses for January—L. Paparelli.  Traveling expenses for March—L. Paparelli.	4 60
Traveling expenses for March—L. Paparelli	2 40
Traveling expenses for January—E. Kellner Traveling expenses for January—C. H. Shinn Traveling expenses for February—C. H. Shinn	9 75
Traveling expenses for January—C. H. Shinn	22 75
Traveling expenses for Tahuary C. H. China	
Traveling expenses for February-C. H. Shinin	14 00
	1 25
	1 80
	1 80 2 45
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti	1 80 2 45 6 65
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti	1 80 2 45 6 65 5 00
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn	1 80 2 45 6 65 5 00 29 20
Traveling expenses for March—E. F. Goodyear Traveling expenses—F. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear	1 80 2 45 6 65 5 00 29 20 1 45
Traveling expenses for March—E. F. Goodyear Traveling expenses—F. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear	1 80 2 45 6 65 5 00 29 20 1 45 2 15
Traveling expenses for March—E. F. Goodyear Traveling expenses—F. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—E. W. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20 \$497 85
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—E. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  One gate valve—Woodin & Little One Pitman box—Woodin & Little	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—E. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  One gate valve—Woodin & Little One Pitman box—Woodin & Little	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20 \$497 86 \$5 25 10 00
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  One gate valve—Woodin & Little One Pitman box—Woodin & Little One Strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co.	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20 \$497 86
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  One gate valve—Woodin & Little One Pitman box—Woodin & Little One Strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co.	1 80 2 45 6 65 5 00 29 20 1 15 16 90 2 70 45 20 \$497 85 \$5 25 10 00 22 00 7 50
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmili frame. Paso Robles Station—Bennett, Shackelford & LeBlanc	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20 \$497 86
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One Strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill. Paso Robles Station—Bennett, Shackelford & LeBlanc	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20 \$497 85 \$5 25 10 00 22 00 7 50 34 00
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One Strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill. Paso Robles Station—Bennett, Shackelford & LeBlanc	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20 \$497 86 10 00 22 00 7 50 34 00 40 00
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—E. P. Boletti Traveling expenses—L. Paparelli Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—L. Paparelli Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord	1 80 2 45 6 65 5 00 29 20 29 20 1 45 2 15 16 90 45 20 \$497 85 \$5 25 10 00 22 00 7 50 34 00 40 00 13 00
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—F. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—L. Paparelli Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Dne 16-foot pine mast, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord	1 80 2 45 6 65 5 00 29 20 1 16 90 2 70 45 20 \$497 85 \$5 25 10 00 22 00 2 00 34 00 40 00 1 3 00 1 55
Traveling expenses for March—E. F. Goodyear Traveling expenses for March—G. E. Colby Traveling expenses—E. W. Hilgard Traveling expenses—E. Paparelli Traveling expenses—L. Paparelli Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord Done 16-foot pine mast, Paso Robles Station—Massey & McCord Bolts, nails, etc., Paso Robles Station—Massey & McCord Bolts, nails, etc., Paso Robles Station—Massey & McCord	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 2 70 45 20 \$497 86 10 00 22 00 7 50 34 00 40 00 13 00 1 55 66
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. T. Bioletti Traveling expenses—E. P. Aparelli. Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—E. P. Aparelli. Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord Bolts, nails, etc., Paso Robles Station—Massey & McCord One forked connection—Woodin & Little	1 80 2 45 6 65 5 00 29 20 29 20 1 45 2 15 16 90 45 20 \$497 85 \$5 25 10 00 22 00 7 50 34 00 40 00 13 00 1 55 2 50
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. T. Bioletti Traveling expenses—L. Paparelli Traveling expenses—C. H. Shinn Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—L. Paparelli Traveling expenses—L. Paparelli Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One strap head—Woodin & Little One strap head—Woodin & Little One windmill frame, Paso Robles Station—T. C. Jameson One windmill, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One forked connection—Woodin & Little One forked connection—Woodin & Little One bolt—Woodin & Little	1 80 2 45 6 65 5 00 29 20 1 15 16 90 2 70 45 20 \$497 85 \$5 25 10 00 22 00 7 50 34 00 40 00 13 00 1 55 65 2 50 2 50
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. T. Bioletti Traveling expenses—E. Paparelli Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One forked connection—Woodin & Little One bolt—Woodin & Little One bolt—Woodin & Little One parking her Woodin & Little	1 80 2 45 6 65 5 00 29 20 29 20 1 45 2 15 16 90 45 20 \$497 85 \$5 25 10 00 22 00 7 50 34 00 40 00 13 00 1 55 2 50
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. T. Bioletti Traveling expenses—E. Paparelli Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One forked connection—Woodin & Little One bolt—Woodin & Little One bolt—Woodin & Little One parking her Woodin & Little	1 80 2 45 6 65 5 00 29 20 29 20 1 45 2 15 16 90 2 70 45 20 \$497 86 10 00 22 00 7 50 34 00 40 00 13 00 1 55 2 50 2 50 2 57 6 57
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. T. Bioletti Traveling expenses—E. Paparelli Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One forked connection—Woodin & Little One bolt—Woodin & Little One bolt—Woodin & Little One parking her Woodin & Little	1 80 2 45 6 65 5 00 29 20 1 45 2 15 16 90 45 20 \$497 85 \$5 25 10 00 22 00 7 50 34 00 40 00 13 00 1 55 5 50 2 50 2 50 2 50 2 50 2 50 2 50 2
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. T. Bioletti Traveling expenses—E. Paparelli Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One forked connection—Woodin & Little One bolt—Woodin & Little One bolt—Woodin & Little One parking her Woodin & Little	1 80 2 45 6 65 5 00 29 20 1 45 20 2 70 45 20 \$497 85 10 00 2 70 2 70 34 00 40 00 13 00 1 55 65 2 50 2 50 6 88
Traveling expenses for March—E. F. Goodyear Traveling expenses—E. W. Hilgard Traveling expenses—E. T. Bioletti Traveling expenses—E. Paparelli Traveling expenses—E. F. Goodyear Traveling expenses—E. F. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—E. P. Goodyear Traveling expenses—C. H. Shinn Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard Traveling expenses—E. W. Hilgard  APPENDIX No. 3 W—Agricultural Experiment Stations—Water Supply.  One gate valve—Woodin & Little One Pitman box—Woodin & Little One strap head—Woodin & Little One water tank for Amador Station—Moore & Smith Lumber Co. Repairing pump, Paso Robles Station—T. C. Jameson One windmill frame, Paso Robles Station—Bennett, Shackelford & LeBlanc One windmill, Paso Robles Station—Massey & McCord Erecting mast, etc., Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One 16-foot pine mast, Paso Robles Station—Massey & McCord One forked connection—Woodin & Little One bolt—Woodin & Little One bolt—Woodin & Little One parking her Woodin & Little	1 80 2 45 6 65 5 00 29 20 29 20 1 45 2 15 16 90 2 70 45 20 \$497 86 10 00 22 00 7 50 34 00 40 00 13 00 1 55 2 50 2 50 2 50 6 88 47 86
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SECRETARY TO THE BOARD OF REGENTS.	173
Erecting pipe for windmill—T. C. Jameson	\$10 00
One 1½-inch nipple—T. C. Jameson One 1½-inch service cock—T. C. Jameson	25 2 50
Tin—J. R. Hewitt	25
Stopcock—J. R. Hewitt	3 00
Bushing—J. R. Hewitt. Two hundred feet 1-inch pipe—T. P. Bruce One hundred and twenty-five feet 3-inch pipe—T. P. Bruce Two 1-inch G valves—T. P. Bruce.	15 16 00
One hundred and twenty-five feet \(\frac{3}{4}\)-inch pipe—T. P. Bruce	6 88
Two 1-inch G valves—T. P. Bruce	2 00
Two 1-inch bushings—T. P. Bruce. One 1-inch T—T. P. Bruce.	20 15
Two 1-inch ells—T. P. Bruce	20
Five pounds cement—T. P. Bruce	15
Cartage—T. P. Bruce	10 75
Labor cutting and fitting, etc.—T. P. Bruce	3 00
Cartage—T. P. Bruce Labor cutting and fitting, etc.—T. P. Bruce Repairs to pump—Knight & Co. Two gallons vacuum oil	22 75 1 25
1 wo gamons vacuum on	
A	<b>\$268 97</b>
APPENDIX No. 3 X—Agricultural Experiment Stations—Live Stock.	
One pair draft horses—Richard Gird	\$400 00
One mare—Paine & Lattin	100 00
	\$500 00
Appendix No. 4—College of Agriculture.	
Two thousand five hundred feet 2-inch drain tile—Gladding, McBean	
& Co\$62 50 Eight hundred and seventy-five feet 4-inch drain tile—Gladding, Mc-	
Bean & Co	
Fifteen feet 4x3 drain tile—Gladding, McBean & Co. 600 Ten feet 4x2 drain tile—Gladding, McBean & Co. 400	
Fourteen feet 3x2 reducers—Gladding, McBean & Co. 4 90	
Bean & Co.       35 00         Fifteen feet 4x3 drain tile—Gladding, McBean & Co.       6 00         Ten feet 4x2 drain tile—Gladding, McBean & Co.       4 00         Fourteen feet 3x2 reducers—Gladding, McBean & Co.       4 90         Fourteen feet 4x3 reducers—Gladding, McBean & Co.       5 60	
\$118.00	-
Less 15 30	#100 F0
Furniture in seed house—Niehaus Bros. & Co.	\$102 70 317 00
Sharpening four shares—Nelson & McLellan	1 00
One mold board and repairing plow—Nelson & McLellan	6 00 1 50
Sharpening four shares—Nelson & McLellan One mold board and repairing plow—Nelson & McLellan Two picks steeled—Nelson & McLellan Two picks sharpened—Nelson & McLellan Two picks sharpened—Nelson & McLellan	50
One pick handle—Nelson & McLellan Expressage for month of June—Patterson & Co.	25
Expressage for month of June—Patterson & Co.	5 75 556 00
Telegrams—Western Union Telegraph Co.	6 81
Labor for month of June Telegrams—Western Union Telegraph Co. Expressage—Wells, Fargo & Co. Fifteen gallons paint—E. G. Buswell & Co.	25 00
One hundred nounds putty F. G. Ruswell & Co.	
	22 50 5 00
Four boxes 10x16 glass—E. G. Buswell & Co.	5 00 13 00
One hundred pounds putty—E. G. Buswell & Co.  Four boxes 10x16 glass—E. G. Buswell & Co.  Five pairs glazier's points—E. G. Buswell & Co.	5 00 13 00 50
Two sash tools—E. G. Buswell & Co.	5 00 13 00 50 2 00
Two brushes—E. G. Buswell & Co. Two sash tools—E. G. Buswell & Co. Two putty knives—E. G. Buswell & Co.	5 00 13 00 50 2 00 50 50
Two brushes—E. G. Buswell & Co. Two sash tools—E. G. Buswell & Co. Two putty knives—E. G. Buswell & Co.	5 00 13 00 50 2 00 50 50 75
Two brushes—E. G. Buswell & Co.  Two sash tools—E. G. Buswell & Co.  Two putty knives—E. G. Buswell & Co.  One flat duster—E. G. Buswell & Co.  Six picks sharpened—Nelson & McLellan	5 00 13 00 50 2 00 50 50 75 90
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wo pounds ammonia carbonate—Justinian Caire our pounds tartaric acid—Justinian Caire	
our pounds tartaric acid—Justinian Caire	
en pounds 6d nails—Justinian Caire.	·
en pounds 8d nails—Justinian Caire en pounds 8d nails—Justinian Caire hree dozen 1-gallon demijohns—Justinian Caire ne dozen 1-gallon demijohns—Justinian Caire our cylinders—Justinian Caire our cylinders—Justinian Caire even thousand one hundred cubic feet gas—Oakland Gas Co. aling five and one half tons hay—T. W. Keith expressage—Wells, Fargo & Co. abor for month of September harpening four picks—Nelson & McLellan harpening one share—Nelson & McLellan epairing garden shears—Nelson & McLellan	
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ega Logarithmen gbd	4.00
onig nahrungsmittd	1.20
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rto	2.80
ovasenda ampelographia iosi et Cavara, i funghi parassiti	4.80 32.00
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bor for month of October fty pounds alkali potash—Justinian Caire le bundle extra galvanized hoop iron—Justinian Caire sorted glass tubing—Justinian Caire. vo pairs small pincers—Justinian Caire mel's hair brushes—Justinian Caire le brooms—Justinian Caire le hair broom—Justinian Caire le broom—Justinian Caire n pipe—Justinian Caire n pipe—Justinian Caire le brace—Justinian Caire le brace—Justinian Caire le or order Justinian Caire le or order Justinian Caire	48
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One tray—Walter Meese One half dozen letter files—Payot, Upham & Co Blotting paper—Payot, Upham & Co One ton Wellington coal.—Stewart & Trowbridge Six barrels lime—Stewart & Trowbridge Ten thousand two hundred cubic feet gas—Oakland Gas Co.	<b>\$</b> 0	
One half dozen letter files—Payot, Upham & Co.		00
Blotting paper—Payot, Upham & Co.		00
One ton Wellington coal—Stewart & Trowbridge	17	25
Ten thousand two hundred cubic feet gas—Oakland Gas Co	25	
Ten thousand two hundred cubic feet gas—Oakland Gas Co.  Freight charges—Southern Pacific Co.  One paper wire nails, 1-inch—Savage Bros.  Two papers wire nails, 11- and 2-inch—Savage Bros.  Two papers wire nails, 12- and 2-inch—Savage Bros.		25
One paper wire nails, 1-inch—Savage Bros.	•	15
One paper wire nails, 4-inch—Savage Bros.		15
Two papers wire nalls, 1½ and 2-inch—Savage Bros	_	90
Prive pounds copper wire—Savage Bros.  One keg 8d nails—Savage Bros.  One spoke shave—Savage Bros.  One 6-inch garden shovel—Savage Bros.		00
One keg 8a nalis—Savage Bros.	0	35 15
One Sinch carden shovel—Savage Bros		78
Two 8-inch garden shovels—Savage Bros.	2	ó
One dozen carpenters' pencils—Savage Bros.		65
Two pruning shears—Savage Bros.		00
Two brooms—Savage Bros		00
One garden broom—Savage Bros	5	50
Two 8-inch garden shovels—Savage Bros. One dozen carpenters' pencils—Savage Bros. Two pruning shears—Savage Bros. Two brooms—Savage Bros. One garden broom—Savage Bros. One 2-foot rule—Savage Bros. Six gopher traps—Savage Bros. One stable fork—Savage Bros. Five gallons linseed oil—Savage Bros. Twenty-five pounds white lead—Savage Bros. One stable lantern—J. McClain	- 1	10 50
One stable fork—Savage Bros.		75
Five gallons linseed oil—Savage Bros.	3	50
Twenty-five pounds white lead—Savage Bros	2	50
One stable lantern—J. McClain		75
One stable lantern—J. McClain One dozen wicks—J. McClain One can harness oil—J. McClain Three picks and hardles J. McClain		15
One can harness oil—J. McClain		50
Three picks and handles—J. McClain Three 14-inch rakes—J. McClain		50 80
Three 14-inch rakes—J. McClain  Three 10-inch rakes—I. McClain		00
Three 10-inch rakes—J. McClain	•	30
Two mouse traps—J. McClain		30
One half dozen cans axle grease—J. McClain		75
Four thousand bulletins—Dewey & Co.	14	00
Five thousand three hundred cubic feet gas—Oakland Gas Co.	13	
Depoint to form more Nolson & McLeller	481 12	
Repairs to farm wagon—Neison & McLenan		74
Licorice plants—Isaac Lea		ó
Six 32-inch grate bars—Harvey Heating Co.		20
Telegraphing—Western Union Telegraph Co.		37
Twenty-five pounds tobacco seed—R. L. Ragland		58
One ream Willamette cap paper, 10-pound—Payot, Upham & Co	2	25 50
One ream whitemetre cap paper, 10-pound—rayot, Upham & Co.		00
One half gross penils—Payot, Upham & Co.		50
One half dozen papers pins—Payot, Upham & Co.	_	38
One ream manilla paper—Payot, Upham & Co.		00
One ream manilla paper—Payot, Upham & Co.		80
Six record books—Payot, Upham & Co.		80
Eighteen record books—Payot, Upham & Co.	8	00
Two dozen white pads—rayot, Upham & Co.	9	75 25
Two dozen white pads—Payot, Upham & Co.		50
One dozen pads—Payot, Upham & Co.		80
One ream letter paper—Payot, Upham & Co.		00
One dozen pyramid pins, No. 5—Payot, Upham & Co.	1	00
One third gross rubber bands—Payot, Upham & Co.		56
Cross-ruled paper—Payot, Upnam & Co.	14	00
Expressage—Fatterson & Co	36	
Three 10-inch rakes—J. McClain. One half dozen papers 4-ounce tacks—J. McClain. Two mouse traps—J. McClain. One half dozen cans axle grease—J. McClain. Four thousand bulletins—Dewey & Co. Five thousand three hundred cubic feet gas—Oakland Gas Co. Labor for month of December, 1890. Repairs to farm wagon—Nelson & McLellan Telegraphing—Western Union Telegraph Co. Licorice plants—Isaac Lea. Six 32-inch grate bars—Harvey Heating Co. Telegraphing—Western Union Telegraph Co. Twenty-five pounds tobacco seed—R. L. Ragland. One ream Willamette cap paper, 10-pound—Payot, Upham & Co. One gross pens—Payot, Upham & Co. One half gross pencils—Payot, Upham & Co. One half dozen papers pins—Payot, Upham & Co. One ream manilla paper—Payot, Upham & Co. One ream manilla paper—Payot, Upham & Co. Six record books—Payot, Upham & Co. Eighteen record books—Payot, Upham & Co. Two dozen white pads—Payot, Upham & Co. Two dozen white pads—Payot, Upham & Co. One dozen white pads—Payot, Upham & Co. One dozen white pads—Payot, Upham & Co. One dozen white pads—Payot, Upham & Co. One dozen white pads—Payot, Upham & Co. One dozen pyramid pins, No. 5—Payot, Upham & Co. One dozen pyramid pins, No. 5—Payot, Upham & Co. One third gross rubber bands—Payot, Upham & Co. One third gross rubber bands—Payot, Upham & Co. Expressage—Vells, Fargo & Co. Chimney top—J. M. McNamara. One Abela-Libro del Viticultor—Tauzy, Levy & Co.	11	
One Abela-Libro del Viticultor—Tauzy, Levy & Co.		25
One Tablada Olivo—Tauzy, Levy & Co. One Viala-Mission Viticole—Tauzy, Levy & Co.		50
One Viala-Mission Viticole—Tauzy, Levy & Co	4	00
One keg—A. Erlandsen		25
One lock repaired—A. Erlandsen		50
Four Pasteur bouges—Justinian Caire Two saccharometers and jars—Justinian Caire		50
THO BROOMER GIRCLES WIR TORD A REMINDER CONTROL CONTROL		00
One agate pan and sieve—Justinian Caire		
One agate pan and sieve—Justinian Caire	_	60
One agate pan and sieve—Justinian Caire One agate funnel—Justinian Caire Two thermometers—Justinian Caire	_	50
One agate pan and sieve—Justinian Caire One agate funnel—Justinian Caire Two thermometers—Justinian Caire One grape knife—Justinian Caire		50 25
One agate pan and sieve—Justinian Caire One agate funnel—Justinian Caire Two thermometers—Justinian Caire	9	50

One half gross 40-ounce vials—Justinian Caire	\$2 25
Six dozen test tubes—Justinian Caire Picrometers—Justinian Caire. Wash bottles with ground-glass stoppers—Justinian Caire. Three graduated ground-glass stoppered cylinders—Justinian Caire. Two pairs rubber gloves—Justinian Caire Assorted corks—Justinian Caire. Twenty-five yards muslin—Justinian Caire One dozen 1-gallon demijohns—Justinian Caire Fifty-seven yards muslin—Justinian Caire One dozen 1-gallon demijohns—Justinian Caire One Fletcher gas burner—Justinian Caire One Fletcher gas burner—Justinian Caire Five pounds carbon bisulphide—Justinian Caire One gross wide-mouth bottles, with corks—Justinian Caire One glass-stoppered wash bottle—Justinian Caire One pound potassium bromide—Justinian Caire One half pound bismuth nitrate—Justinian Caire One quarter pound oxide antimony—Justinian Caire Arsenic—Justinian Caire Nickel nitrate—Justinian Caire Two pounds litmus—Justinian Caire Two pounds litmus—Justinian Caire	2 40
Picrometers—Justinian Caire	•2 50
Wash bottles with ground-glass stoppers—Justinian Caire	3 50
Three graduated ground-glass stoppered cylinders—Justinian Caire	3 85
Aggregated cowled Tuestinian Caire	2 50
Assorbed Colas—Justinian Care	5 00 3 12
One dozen 1 - gellon demiliohns — Instinien Caire	3 60
Fifty-seven yards muslin—Instinian Caire	3 75
One dozen 1-gallon demijohns—Justinian Caire	2 70
One Fletcher gas burner—Justinian Caire	1 80
Five pounds carbon bisulphide—Justinian Caire	2 25
One gross wide-mouth bottles, with corks—Justinian Caire	7 50
Three ounces iodine—Justinian Caire	1 35
One glass-stoppered wash bottle—Justinian Caire	1 75
One pound potassium bromide—Justinian Caire	56 30
One half pound bismuth nitrate—Justinian Caire	30
One quarter pound oxide antimony—Justinian Caire	40
Arsenic—Justinian Caire	25
Nickel nitrate—Justinian Caire	40
Two pounds litmus—Justinian Caire	1 50
Tin chloral—Justinian Caire	20
Stove wicks—Justinian Caire	40
Tacks—Justiman Caire	16 00
Eight 10-gailon oak kegs—J. H. Holden	16 00
Eight 19 callon oak kegs—J. H. Holden	20 00 20 00
Throa 95 realion oak lears	7 50
Tacks—Justinian Caire—  Tacks—Justinian Caire—  Eight 15-gallon oak kegs—J. H. Holden  Eight 17½-gallon oak kegs—J. H. Holden  Eight 20-gallon oak kegs—J. H. Holden  Three 25-gallon oak kegs—J. H. Holden  One Wolff Aschenanalgsen, etc.—E. Steiger & Co.  Postage—E. Steiger & Co.	5 04
Postago F. Steiger & Co	39
Power Presis d Waisnboroisner Mayor & Mullon M 16 60	4 03
One thousand feet redwood lumber—H. W. Taylor & Co.	18 00
Labor gathering grapes—Cupertino Wine Co.	28 20
Labor gathering grapes—Cupertino Wine Co	2 65
One ton barley—Stewart & Trowbridge	35 00
Five hundred pounds bran—Stewart & Trowbridge	6 50
Labor—Isidor Le Duc	11 75
One thousand feet redwood lumber—H. W. Taylor & Co.  Labor gathering grapes—Cupertino Wine Co.  Labor gathering grapes—Cupertino Wine Co.  Labor gathering grapes—Cupertino Wine Co.  One ton barley—Stewart & Trowbridge  Five hundred pounds bran—Stewart & Trowbridge  Labor—Isidor Le Duc.  Three copy books—Payot, Upham & Co.  Six journals—Payot, Upham & Co.  Four picks sharpened—Nelson & McLellan  Six shares sharpened—Nelson & McLellan  Six shares sharpened—Nelson & McLellan  Eight new shoes—Nelson & McLellan  Three shares and one plow shovel sharpened—Nelson & McLellan  Six new bolts—Nelson & McLellan  Telegram and expressage—George Hansen  Five thousand bulletins—Dewey & Co.  Expressage—Patterson & Co.  One copper bath—John J. Menges  Two hundred and fifty specimen trays—M. Waizman  Telegram—Western Union Telegraph Co.	4 50
Six journals—Payot, Upham & Co.	9 00
Three pencils—Payot, Upham & Co.	45
Four picks sharpened—Nelson & McLellan	60
Six shares sharpened—Nelson & McLellan	1 75
Eight new shoes—Neison & McLellan	4 00
Three snares and one plow snovel snarpened—Nelson & McLehan	1 65 1 55
Six new botts—Neison & McLenan	2 05
Five thousend builtains — Dawey & Co	22 50
Five industria numerins—bewey & Co.	28 25
One conner bath—Iohn I Menges	6 50
Two hundred and fifty specimen travs—M Waizman	2 50
Two hundred and fifty specimen trays—M. Waizman	2 50
Two nundred and may specimen trays—M. Wazinan. Telegram—Western Union Telegraph Co.  Expressage and freight—E. Ginocchio & Bro.  Expressage and freight—K. McLellan  Labor for month of January, 1891  Expressage—Wells, Fargo & Co.  Four thousand nine hundred cubic feet gas—Oakland Gas Co.  Hauling grapes from Ione depot to station—Nathaniel Griffin  Freightage—E. Ginocchio & Bro.	5 73
Expressage and freight—E. Ginocchio & Bro.	11 35
Expressage and freight—K. McLellan	1 45
Labor for month of January, 1891.	463 00
Expressage—Wells, Fargo & Co.	6 15
Four thousand nine hundred cubic feet gas—Oakland Gas Co	<b>12 2</b> 5
Hauling grapes from Ione depot to station—Nathaniel Griffin	85 OO
Freightage—E. Ginocchio & Bro.	50
Freightage—E. Ginocchio & Bro.	2 35
Freightage—E. Ginocchio & Bro. Freightage—E. Ginocchio & Bro. Expressage—Geo. Hansen	90
Postage—(†eo. Hansen	35
Postage-Geo. Hansen	65
Telegram and expressage—Geo. Hansen Telegram and expressage—Geo. Hansen	1 30 7 25
Telegram and expressage—deo. namen	2 50
Expressage—Geo. Hansen	35
Postage—Geo, Hansen	35 45
Postage—Geo. Hansen Telegram and expressage—Geo. Hansen	95
Two hushels winter oats W W Johnson Seed Co.	2 00
Two bushels winter oats—M. W. Johnson Seed Co.  Two bushels winter oats—M. W. Johnson Seed Co.	1 50
One half ton Wellington coal—Stewart & Trowbridge	7 00
Fifty pounds peach pits—Thos. A. Cox & Co.	iŏŏ
Fifty pounds peach pits—Thos. A. Cox & Co. Ten pounds soft-shell almonds—Thos. A. Cox & Co.	2 50
One half pound Japan pears—Thos. A. Cox & Co.	2 50

Two pounds English walnuts—Thos. A. Cox & Co.  Two pounds Japan chestnuts—Thos. A. Cox & Co.  Two pounds Italian chestnuts—Thos. A. Cox & Co.			\$0 25
Two pounds Japan chestnuts—Thos. A. Cox & Co.		'	50
Two pounds Italian chestnuts—Thos. A. Cox & Co.			40
One bushel acorns—B. M. Watson Expressage—Wells, Fargo & Co.		•	4 00 2 90
Two adapteurs—Justinian Caire	\$0	70	2 00
Two adapteurs—Justinian Caire One Enterprise mill—Justinian Caire	ĭ	50	
One case kitchen soap—Justinian Caire	1	w	
Three dozen toilet soap—Justinian Caire		25	
One soldering iron—Justinian Caire		50	
Ashorton Instinian Caire	e	35 75	
Asbestos—Justinian Caire Twenty-five feet rubber tube—Justinian Caire		33	
Copper wire—Justinian Caire One magnet—Justinian Caire One self-registering thermometer—Justinian Caire One thermometer—Justinian Caire One bunghole burner—Justinian Caire One propess—Justinian Caire		<b>00</b>	
One magnet—Justinian Caire	_	25	
One self-registering thermometer—Justinian Caire	3	50	
One thermometer—Justinian Caire	_	25	
One bunghole burner—Justiman Caire		50	
One compass—Justinian Caire Two door springs—Justinian Caire Steel wire gauge—Justinian Caire		25 40	
Steel wire gauge—Justinian Caire		40	
Eight drawer knobs—Justinian Caire		40	
Two sieves—Justinian Caire	1	10	
Fifty nounds paraffine Justinian Caira	7	50	
One gallon turpentine—Justinian Caire Three grates—Justinian Caire Small beakers—Justinian Caire One grate cleaner—Justinian Caire Assorted twine—Justinian Caire One pound hydrobromic acid—Justinian Caire One pound hydrobromic acid—Justinian Caire		65	
Three grates—Justinian Caire	0	50	
One create cleaner Tretinian Caire	Z	50 50	
Assorted twine—Justinian Caire	2	50	
One pound hydrobromic acid—Justinian Caire	_	75	
One bottle sulphuric acid—Justinian Caire	3	15	
One bottle sulphuric acid—Justinian Caire One pound bit. potash—Justinian Caire Five pounds chloroform—Justinian Caire		40	
Five pounds chloroform—Justinian Caire	2	55	
Five pounds bisulphide carbon—Justinian Caire	2	25	
One manual familia mitus. Turkinian Caina			
One pound fuming nitre—Justinian Caire	Q	60	
One pound fuming nitre—Justinian Caire. One gross naturalists' vials—Justinian Caire. One dozen glasses for wine sampling—Justinian Caire.	3	00	
One pound fuming nitre—Justinian Caire. One gross naturalists' vials—Justinian Caire One dozen glasses for wine sampling—Justinian Caire Three hundred pounds sal soda—Justinian Caire	3 1 6	00	
Five pounds bisulphide carbon—Justinian Caire One pound fuming nitre—Justinian Caire One gross naturalists' vials—Justinian Caire One dozen glasses for wine sampling—Justinian Caire Three hundred pounds sal soda—Justinian Caire		00 00 00	
-	\$60	00 00 00 28	
Less 2 per cent	\$60 1	00 00 00 28 20	59 08
Less 2 per cent	\$60 1	00 00 00 28 20	59 08 60
Less 2 per cent	\$60 1	00 00 00 28 20	25 00
Less 2 per cent	\$60 1	00 00 00 28 20	25 00 16 50
Less 2 per cent	\$60 1	00 00 00 28 20	25 00 16 50 2 25
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co.	\$60 1	00 00 00 28 20 	25 00 16 50 2 25 5 12
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co.	\$60 1	00 00 00 28 20 	25 00 16 50 2 25 5 12 80
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co.	\$60 1	00 00 00 28 20 	25 00 16 50 2 25 5 12 80 40
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co.	\$60 1	00 00 00 28 20 	25 00 16 50 2 25 5 12 80
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co.	\$60 1	00 00 00 28 20 	50 25 00 16 50 2 25 5 12 5 40 40 55 75
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co.	\$60 1	00 00 00 28 20 	25 00 16 50 2 25 5 12 80 40 35 56 76 3 35
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co.  Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Postage—George Hansen Expressage—George Hansen Atvertising rewards in county papers—George Hansen Advertising rewards in county papers—George Hansen	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 16 50 2 25 5 12 80 40 33 56 77 3 33 4 00
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co.  Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Postage—George Hansen Expressage—George Hansen Atvertising rewards in county papers—George Hansen Advertising rewards in county papers—George Hansen	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 16 50 2 25 5 12 5 4 00 421 00
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co.  Expressage—Patterson & Co.  Freight on fertilizers—E. Ginocchio & Bro.  Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Postage—George Hansen Expressage—George Hansen Atvertising rewards in county papers—George Hansen Advertising rewards in county papers—George Hansen	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	50 25 00 16 50 2 25 5 12 5 12 5 12 5 12 5 12 5 12 5
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co.	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 16 50 2 25 5 12 5 80 40 3 35 4 00 421 00 46 75 1 40
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co.	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 16 50 2 25 12 5 80 40 3 30 421 00 46 75 1 40 2 90
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February. Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on peanuts—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co.	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 16 50 2 25 5 12 5 80 40 3 35 4 00 421 00 46 75 1 40
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February. Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on peanuts—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co.	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 16 50 22 15 8 40 35 55 73 4 00 421 22 9 82 1 50
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Expressage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co.	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 25 12 15 80 40 85 84 85 84 85 85 84 85 85 84 85 85 85 85 85 85 85 85 85 85 85 85 85
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February. Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 00 50 50 50 50 50 50 50 50 50 50 50 50
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Expressage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February. Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on peanuts—Southern Pacific Co. Freight on prape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 000 25 12 25 80 40 35 57 33 4 000 421 29 82 1 5 7 438 16 5 5
Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Expressage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Lighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 500 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on peanuts—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Two iron braces—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 000 25 12 25 12 25 12 25 12 25 12 25 12 25 12 25 12 25 12 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72 42 10 72
Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on peanuts—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Two iron braces—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	25 500 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on peanuts—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Two iron braces—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	60 25 00 2 25 5 12 8 44 4 00 4 21 1 44 4 77 1 44 4 10 10 10 10 10 10 10 10 10 10 10 10 10 1
Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Expressage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February. Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Eight new shoes—Nelson & McLellan Repairing plow—Nelson & McLellan Repairing neckyoke—Nelson & McLellan Repairing neckyoke—Nelson & McLellan Eight new shoes—Nelson & McLellan Eight new shoes—Nelson & McLellan Eight new shoes—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	60 25 000 26 25 25 121 25 121 25 25 121 25 25 121 25 25 121 25 25 121 25 25 12 15 12 12 12 12 12 12 12 12 12 12 12 12 12
Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Expressage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Eight new shoes—Nelson & McLellan Repairing plow—Nelson & McLellan Repairing neckyoke—Nelson & McLellan Repairing neckyoke—Nelson & McLellan Eight new shoes—Nelson & McLellan Eight new shoes—Nelson & McLellan Eight new shoes—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	60 25 00 2 22 5 11 8 44 42 1 00 421 00 421 00 421 00 438 15 1 00 55 50 50 50 50 50 50 50 50 50 50 50 5
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Eight new shoes—Nelson & McLellan Eight new shoes—Nelson & McLellan Repairing plow—Nelson & McLellan Eight new shoes—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	60 25 00 26 25 12 25 12 3 33 3 34 40 00 442 10 5 5 10 10 16 5 5 10 16 5 16 16 5 16 16 16 16 16 16 16 16 16 16 16 16 16
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Lighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on peanuts—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Eight new shoes—Nelson & McLellan Repairing plow—Nelson & McLellan Repairing neckyoke—Nelson & McLellan Eight new shoes—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	60 25 000 26 25 25 121 25 121 25 25 121 25 25 121 25 25 121 25 25 121 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 25 25 25 25 25 25 25 25 25 25 25
Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Expressage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Eight new shoes—Nelson & McLellan Repairing plow—Nelson & McLellan Repairing neckyoke—Nelson & McLellan Repairing neckyoke—Nelson & McLellan Eight new shoes—Nelson & McLellan Repairing cultivator—Nelson & McLellan Rone share pointed, and three bolts—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	6025 000 600 600 600 600 600 600 600 600 60
Less 2 per cent  Expressage one box to Tulare—Julius Forrer Postage stamps—N. B. Byrne Three thousand bulletins—Dewey & Co. Expressage—Patterson & Co. Freight on fertilizers—E. Ginocchio & Bro. Telegram—George Hansen Telegram—George Hansen Expressage—George Hansen Postage—George Hansen Postage—George Hansen Expressage business with District Attorney—George Hansen Advertising rewards in county papers—George Hansen Labor, month of February Eighteen thousand seven hundred cubic feet gas—Oakland Gas Co. Freight on seeds to Pomona—Southern Pacific Co. Freight on grape cuttings from New York—Southern Pacific Co. Freight on cuttings—Southern Pacific Co. Expressage from San Francisco—Whitney & Co. Telegrams—Western Union Telegraph Co. Labor, month of March Two barrels K. & R. sulphur—Tillmann & Bendel Ten shares sharpened—Nelson & McLellan Eight new shoes—Nelson & McLellan Eight new shoes—Nelson & McLellan Repairing plow—Nelson & McLellan Eight new shoes—Nelson & McLellan	\$60	00 00 00 00 00 00 00 00 00 00 00 00 00	60 25 000 26 25 25 121 25 121 25 25 121 25 25 121 25 25 121 25 25 121 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 12 25 25 25 25 25 25 25 25 25 25 25 25 25

Expressage—Patterson & Co.	\$4
Freight on trees—Julius Forrer	'4
Freight on trees—Julius Forrer Freight on plants—Julius Forrer	-
Freight on plants—Julius Forrer Expressage on plants—Julius Forrer Freight on two boxes plants—Southern Pacific Co. Freight on three bales trees—Southern Pacific Co. Freight on two bundles and one box trees—Southern Pacific Co. Freight on furniture for office—Southern Pacific Co. One bottle ink—R. N. Louks One bottle red ink—R. N. Louks Pens and pencils—R. N. Louks One bottle mucilage—R. N. Louks	
Expressage on plants—Julius Forrer	
Freight on two boxes plants—Southern Pacific Co	4
Freight on three bales trees—Southern Pacific Co	3
Freight on five bales trees—Southern Pacific Co.	
Freight on two hundles and one how trees—Southern Pacific Co	11
Traight on furniture for office. Southern Decife Co	3
Fregit on turnture for onice—Southern Facility Co.	o
One bottle ink—R. N. Louks	
One bottle red ink—R. N. Louks	
Pens and pencils—R. N. Louks.	
One bottle mucilage—R. N. Louks	
One time hole D N I orbe	
One time book—R. N. Louks	_
Freight on one barrel tar—R. D. Cruickshank	3
Freight on one bale trees—R. D. Cruickshank	1
Freight on plants from Berkeley—P. D. Cruickshank	2
Expressed on grane cuttings from France I. Panarelli	ī
Daylessage of grape cuttings from Plance—D. Lapatem	
Freight and teaming—E. Ginocchio & Bro.	3
Postage—George Hansen	
Expressage—Wells, Fargo & Co.	3
Four hundred grape cuttings—Faucher Creek Nursery	4
Politica come Carolle Manager Circle Nulsely	-
Dating same—Faucher Creek Nursery	
reignt on same—raucher Creek Nursery	
Labor, month of April	444
One time book—R. N. Louks Freight on one barrel tar—R. D. Cruickshank Freight on one bale trees—R. D. Cruickshank Freight on plants from Berkeley—R. D. Cruickshank Expressage on grape cuttings from France—L. Paparelli Freight and teaming—E. Ginocchio & Bro. Postage—George Hansen Expressage—Wells, Fargo & Co. Four hundred grape cuttings—Faucher Creek Nursery Baling same—Faucher Creek Nursery Freight on same—Faucher Creek Nursery Labor, month of April One hundred and seventy-nine and one half gallons spirits—C. Jost & Son Expressage—Patterson & Co.	62
Expressed Pattaren & Co	4
Expressage—Patterson & Co. Four thousand bulletins—Dewey & Co. Seven thousand five hundred cubic feet gas—Oakland Gas Co.	
Four thousand bulletins—Dewey & Co.	14
Seven thousand five hundred cubic feet gas—Oakland Gas Co	18
One ton Wellington coal—Stewart & Trowbridge	13
Freight on granes Rarbeley to Tulara Julius Forrer	1
Poster of Coops Thereby to Italie—Julius Police	-
rostage—George Hansen	
Expressage—E. Ginocchio & Bro.	
Membership in Association of American Agricultural Colleges and Experi-	
Seven thousand five hundred cubic feet gas—Oakland Gas Co. One ton Wellington coal—Stewart & Trowbridge. Freight on grapes, Berkeley to Tulare—Julius Forrer Postage—George Hansen Expressage—E. Ginocchio & Bro. Membership in Association of American Agricultural Colleges and Experiment Stations for 1890-91 Freight on trees for arboretum—Southern Pacific Co. Expressage—Patterson & Co. Expressage on box to E. S. Holden—Wells, Fargo & Co. Expressage on box to E. S. Holden—Wells, Fargo & Co.	25
Enought on troop for appointing Southown Booise Co	-4
Freight on trees for arboretum—Bouthern Facing Co.	
Expressage—Patterson & Co	2
Expressage on box to E. S. Holden—Wells, Fargo & Co	1
Repairing roller—Nelson & McLellan Blade to garden shears—Nelson & McLellan	1
Riada to gardon shooms. Noison & Mal ollen	ī
Diade to garden shears—Nelson & McLenan	
Blade to garden shears—Nelson & McLellan Elight new shoes—Nelson & McLellan Telegram—Western Union Telegraph Co.  Expressage—Wells, Fargo & Co. Postage stamps—N. B. Byrne Eight new shoes—Nelson & McLellan Four shares sharpened—Nelson & McLellan Repairing cultivator—Nelson & McLellan Expressage—Patterson & Co.	4
Telegram—Western Union Telegraph Co.	1
Expressage—Wells, Fargo & Co.	7
Postaga stamps_N R Ryrna	25
Tight now along Nolon & Molellan	-4
Eight new shoes—Nelson & McLenan	
Four shares sharpened—Nelson & McLellan	1
Repairing cultivator—Nelson & McLellan	
Expressage—Patterson & Co.	1
One hundred feet ceder molding. Nichaus Bros & Co	4
Ole number les Cours in Division Bros. & Co.	-
Six papers tacks—Savage Bros.	
One and one half yards muslin—Sol. Greenhood	
Two flags—Sol. Greenhood	
Repairing cultivator—Neison & McLenan  Expressage—Patterson & Co.  One hundred feet cedar molding—Niehaus Bros. & Co.  Six papers tacks—Savage Bros.  One and one half yards muslin—Sol. Greenhood  Two flags—Sol. Greenhood  One quarter gallon turpentine—J. McClain  One half dozen Paragon ribbons—G. G. Wickson & Co.  One window shade—E. Hook.	
One half dozen Paragon ribbons G G Wickson & Co	4
One han dozen i aragon incoles—d. d. wicason & co.	î
One window shade—E. Hook.	
One police badge—E. T. Allen	1
Moving speaking tube in Agricultural Building—J. J. Menges	1
Three manure forks—Sayage Bros.	3
Five thousand two hundred cubic feet res Oakland Gas Co	12
One police badge—E. T. Allen  Moving speaking tube in Agricultural Building—J. J. Menges  Three manure forks—Savage Bros.  Five thousand two hundred cubic feet gas—Oakland Gas Co.	
Expressage—Wells, rargo & Co.	5
Expressage—Wells, Fargo & Co. Two tons Wellington coal—Stewart & Trowbridge Two thousand pounds rolled barley—Stewart & Trowbridge Five hundred pounds bran—Stewart & Trowbridge	24
Two thousand pounds rolled barley—Stewart & Trowbridge	36
Five hundred pounds bran—Stewart & Trowbridge	5
Labor for month of May	450
One in lateral Depart Turkers & Co.	200
One inkstand—Payot, Upnam & Co.	_
Une quart Underwood's ink—Payot, Upham & Co.	1
One inkstand—Payot, Upham & Co. One quart Underwood's ink—Payot, Upham & Co. One 24-inch ruler—Payot, Upham & Co.	
One 15-inch ruler—Payot, Unham & Co.	
One agains haff blotten Devet Triben & Co	1
One quire buil blotter—rayot, Opnam & Co	1
One pair snears—Payot, Upham & Co.	
One letter opener—Payot, Upham & Co.	
One dozen penholders—Payot, Upham & Co.	
One brife green Pevet Unbern & Co	
The same eraser—I ayor, Opiani & Oo.	7
One 24-inch ruler—Payot, Upham & Co. One 15-inch ruler—Payot, Upham & Co. One quire buff blotter—Payot, Upham & Co. One pair shears—Payot, Upham & Co. One letter opener—Payot, Upham & Co. One dozen penholders—Payot, Upham & Co. One knife eraser—Payot, Upham & Co. One knife eraser—Payot, Upham & Co. Three reams Willamette letter paper—Payot, Upham & Co.	7
One bottle ink—Justinian Caire	
Myra hattles India in h. Taratinian Coins	

SECRETARY TO THE BOARD OF REGENTS.	179
One bottle mucilage —Justinian Caire	\$1 00
One half gross corks—Justinian Caire	40
Six cylinders—Justinian Caire One pound zinc dust—Justinian Caire	1 80 31
Two scales—Justinian Caire	600
Two scales—Justinian Caire Ten pounds oxalic acid—Justinian Caire Sixteen watch glasses—Justinian Caire	1 80
Sixteen watch glasses—Justinian Caire	2 50
Sheet cork—Justinian Caire One pound sodium sulphate—Justinian Caire.	
One set graduated flasks—Justinian Caire	3 65
One set graduated flasks—Justinian Caire One set pipettes—Justinian Caire Three boxes labels—Justinian Caire	95
One brush—Justinian Caire	
Two pipettes—Justinian Caire	1 30
Two pipettes—Justinian Caire	40
One fourth pound sulphocyanic ammonia—Justinian Caire	55 40
One pound ammonoferric alum—Justinian Caire	75
One fourth pound sulphocyanic ammonia—Justinian Caire One ounce cadmium chloride—Justinian Caire One pound ammonoferric alum—Justinian Caire One half pound molybdic acid—Justinian Caire	1 87
Three pounds citric acid—Justinian Caire	1 95
Three pounds citric acid—Justinian Caire Ten pounds Paris green—Justinian Caire Five pounds London purple—Justinian Caire Five pounds arsenic—Justinian Caire Thirty pounds sulphate copper—Justinian Caire	2 50 90
Five pounds arsenic—Justinian Caire	50
Thirty pounds sulphate copper—Justinian Caire-	2 10
Twenty pounds rosin—Justinian Caire	80 85
Five thousand tags—Justinian Caire	2 50
Twenty pounds rosin—Justinian Caire One pound carb. copper—Justinian Caire. Five thousand tags—Justinian Caire. One half pound magnesium chloride—Justinian Caire.	50
Six pounds 1-inch wire nails—Justinian Caire. One pair 8-inch T hinges and screws—Justinian Caire.	72
One rim lock—Instinian Caire	35 85
One rim lock—Justinian CaireOne dozen 6-inch wire hooks and eyes—Justinian Caire	65
Ten feet wire screening, 26 inches wide—Justinian Caire	
Six packages 4-qunce tacks—Justinian Caire Six packages 8-ounce tacks—Justinian Caire	
Six ax handles—Justinian Caire	1 25
One hatchet—Justinian Caire	75
One cut-off saw—Justinian Caire	1 75 50
One pair compasses—Justinian Caire One keyhole saw—Justinian Caire	35
One keyhole saw—Justinian Caire Two chisels—Justinian Caire	90
One wood rasp—Justinian Caire	60 35
Two dozen sandpaper—Justinian Caire	25
One wood rasp—Justinian Caire One saw blade—Justinian Caire Two dozen sandpaper—Justinian Caire One circular harness punch—Justinian Caire	1 00
Six saw files—Justinian Caire Two hundred and fifty-two pounds No. 8 galvanized wire—Willard Bea Four pounds galvanized staples—Willard Beam	60 m 10 08
Four nounds galvanized staples—Willard Beam	10 08
Bill of Morris & Kennedy:	
Six sheets paper	\$2 10 1 20
Six Bristol boards W. and N. moist colors	1 20 3 95
Japanned tin box	1 00
Camel's hair brushes	40
India ink	25 50
Quill pens Map pens Sib, pencils	1 50
Sib. pencils	1 00
Four boxes leads	2 60
Triangular scale	1 50 10
Thumb tacks	7Š
Dividers	2 75
Ruling pen	65
•	\$20 25
Less 10 per cent	2 00
Copying ink—R. D. Cruickshank	18 25 30
Freightage—R. D. Cruickshank	1 15
Freightage—R. D. Cruickshank Six hundred and fourteen feet surfaced redwood—H. W. Taylor	18 42
Eight hundred and twenty feet redwood—H. W. Taylor	
One and six tenths thousand laths—H. W. Taylor	
Ninety-two feet pine—H. W. Taylor One thousand two hundred and thirty-eight feet redwood—H. W. Taylor	r 19 81
Mill work on same—H. W. Taylor	5 00

Cartage to mill—H. W. Taylor		\$0 50
Freight on twelve barrels plaster—Southern Pacific Co.		23 40
Telegrams—Western Union Telegraph Co.		83
Postage—George Hansen		35
Postage—George Hansen Two boxes 10x16 window glass—Whittier, Fuller & Co.		6 21
Two maps and expressage—W. B. Walkup & Co.		2 50
Two maps and expressage—W. B. Walkup & Co. One copper kettle—John J. Menges		3 50
<u> </u>	-	
		\$8,564 58
APPENDIX No. 5—College of Chemistry.	=	
Expressage—Patterson & Co.		<b>\$</b> 0 50
Insurance—Canton Insurance Co.		2 35
Bill of Eimer & Amend, New York:	<b>410.00</b>	
Sixty Bunsen burners Fifty ring stands	218 00	
First Fing Stands	24 00	
Twenty-five iron clamps	9 00 2 20	
Four brass clamps		
Ten Bunsen clamps	6 00 14 00	
Two Bunsen large	1 90	
Sixty brass cas jets	3 60	
Sixty brass gas jets Two stands complete rings and stamps	11 50	
Thirty filter pumps	36 00	
One filter pump	10 00	
One filter pump.  Two hundred and four feet rubber tubing, and gauge	20 40	
One set reagent bottles Forty-five reagent bottles Twenty salt-mouth bottles	6 83	
Forty-five reagent bottles	11 25	
Twenty salt-mouth bottles	3 00	
I wenty Dianks	3 00	
Two sets extra reagent bottles One hundred and forty-four glass-label reagent bottles	21 58	
One hundred and forty-four glass-label reagent bottles	18 50	
Fifty-four salt-mouth bottles	9 00	
Fifty-eight salt-mouth bottles	5 80	
Twenty Dianks	2 57	
Twenty blanks	3 33 2 50	
	3 00	
Thirty blanks Twenty-five dozen rubber stoppers, assorted	43 75	
One hundred and twenty feet rubber tubing	10 26	
Twelve feet rubber tubbing.	2 50	
Ninety-six feet rubber tubing	10 80	
Twelve feet rubber tubing	2 55	
Twelve feet rubber tubing Ninety-six feet rubber tubing	6 50	
Ninety-six feet rubber tubing	7 87	
Ninety-six feet rubber tubing Twenty-six feet rubber tubing Eighty-one feet red rubber tubing Four packing cases	5 10	
Eighty-one feet red rubber tubing	10 75	
Four packing cases	3 85	
<del>-</del>		351 39
Bill of E. de Haën, Hanover, Germany, in marks; total in dollars	Monles	
and cents:	Marks.	
One cask ferrum sulfurat.	12.00 8.75	
Twenty-five kr. acid sulfuric pur.	6.50	
Ten kr. acid sulfuric fum. Twenty-five kr. acid hydrochloral pur	9.50	
Five kr phosphor in	21.00	
Five kr. phosphor in One kr. phosphor amorph	6.00	
Five kr. aether sulfuric	5.00	
Two kr. acid hydroflicosilic	2.60	
Two kr. acid hydrofluoric fum	2.40	
Two kr. mirbanol	3.60	
One half kr. natrium metallic	6.50	
Fifty gr. nalium	7.00	`
One kr. nalium sulfurat pro	.60	
One kr. nalium zanthogenic	1.10	
One kr. kreosotum pur Fifty gr. magnesium metallic	2.10	
One by netrium genth genie	2.25	
One kr. natrium zanthogenic	1.20 1.00	
One kr. ol. eusci	1.40	
Two kr. plumbum acetic casic	3.50	
One kr. plumbum acetic pur	.75	
One kr. plumbum chromic pra	4.00	
One kr. plumbum chromic pur fus	3.20	
One kr. plumbum chromic pur fus One kr. plumbum hyposulfuros alb	1.30	
One half kr. plumbum introsum	7.00	

One kr. plumbum peroxydat puriss	M.2.80
Ten kr. plumbum peroxydat puer	9.00
One kr. plumbum peroxydat puriss Ten kr. plumbum peroxydat puer Five kr. plumbum sesquioxydat pur Ten kr. plumbum oxydat tut Two kr. plumbum oxydat pur One kr. plumbum rhodant One half kr. plumbum sulfurat pra One half kr. sacchar lactis rec One half kr. staunum sulfurat	2.50
Ten kr. plumbum oxydat tut	4.40
Two kr plumbum oxydat pur	3.00
One by plumbum rhodent	2.25
One half he plumbum sulfuset are	1,15
One half his priningum sumurat pra	1.10
One half kr. sacchar factis rec	1.25
One half kr. staunum sulfurat	
One half kr. staunum oxydulat pur	3.15
One half kr. staunum oxydat pur	1.50
One kr. staunum arninon muriatic	1.70
One kr. stibium oxydat pur One half kr. stibium perchlorict liquid	3.00
One half kr. stibium perchlorict liquid	1.25
One kr stibium chloret crist	4.50
One kr. stibium chlorat cristOne kr. stibium sulfurat aurant pur	2.80
One has stilling sulfurat autant pur	
One kr. stibium sulfurat rubeum	3.00
Two kr. steontium sulfuric natur	.70
Two kr. steontium carbonic natur	.60
One kr. tartarus stibiat crist pur	3.00
One kr. tartarus chem pur One half kr. tolual chem pur	3.75
One half kr. tolual chem pur	.70
One kr titanerz	1.75
One kr. titanerz	11.00
One fra maggardia kali na	
One kr. wasserglas kali pu One kr. wasserglas natron pu Eight kr. wasserstoff superonyd technic	.75
One kr. wassergias natron pu	.40
Eight kr. wasserstoff superonyd technic	5.60
Eight kr. wasserstoff superonyd technic Four kr. wasserstoff superonyd merc One kr. zincum sulfurat pur One kr. zincum oxydat pur Eight kr. zinkstaub One half kr. zincum metallic pur One half kr. zincum metallic cocill	4.00
One kr. zincum sulfurat pur	6.00
One kr. zincum oxydat pur	1.75
Eight kr. zinkstauh	4.80
One half kr zincum metallic pur	2.25
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One nam ki. namium muos puriss	2.50
Two kr. natrium intros technic	1.60
One kr. natrium permanganic	.55
One kr. natrium oxalic puriss	3.00
One hundred gr. cadmium oxydat puriss	2.00
One kr. natrium permanganic. One kr. natrium oxalic puriss. One hundred gr. cadmium oxydat puriss. One quarter kr. calcium hypophosphoras. One quarter kr. calcium phosphorat. Five kr. carbo animal pulo. Ten kr. carbo animal granul One half kr. chromium metall pur Five kr. cuprum sulfuric puriss cw.	1.75
One quarter kr. calcium phosphorat	1.50
Five kr carbo animal pulo	1.00
Too by carbo animal pulotters by carbo animal pulotters by carbo animal avenue	2.60
One half her character model non	
One nam kr. chromium metan pur	7.00
Five kr. cuprum sulfuric puriss cw	5.00
One kr. cuprum metallic pra	4.50
One kr. cuprum metallic praOne kr. cuprum aluminat platten	1.65
Two kr. ferrum hydricam. One hundred gr. lithium chloratum	1.60
One hundred gr. lithium chloratum	2.00
Five kr keli constic dyr	7.50
Five kr. kali caustic dyr. One half kr. hydrargyum oxyd rubr. One half kr. jodum resublimat.	4.00
One half hi injuralgy uni Oxyu i ubi	15.00
One man Kr. jodum resubimat	
Five kr. kalium bisulfuric tech	4.00
Two kr. kalium bisulfuric pur	1.80
Five kr. kalium chloric puriss Two. kr. kalium cyanat pur One half kr. kalium jodatum	6.50
Two. kr. kalium cyanat pur	6.40
One half kr. kalium jodatum	12.50
Five kr. kalium nitric puriss One kr. kalium purchloric puriss	3.75
One kr kalium nurchloric nurisa	6.50
One kr. kalium permang pur crist. One half kr. kalium phosphoric puriss cr Two kr. natrium pyrophosph puriss crist Five kr. natrium phosphoric puriss crist Ten kr. natrium phosphoric purium crist	1.78
One kr. Rainin permang pur Crist.	0.00
One nan kr. kanum phosphoric puriss cr	2.65
Two kr. natrium pyrophosph puriss crist	3.40
Five kr. natrium phosphoric puriss crist	3.00
Ten kr. natrium phosphoric purium crist	4.00
Two kr. natronkalk	4.00
Two kr. natronkalk Two kr. natro kali carbonic puriss	7.20
One kr. niccolum chloratum	3.20
One hundred or niccolum oxydat nuriss	5.00
One has nicolan evidet ingeteste	5.00
One hundred gr. niccolum oxydat puriss One kr. niccolum oxydat ingeteche Eighty-two hundredths kr. niccolum metallic	
Eighty-two nundredths kr. niccolum metallic	4.30
One kr. paraffin	1.40
One kr. paraffin One kr. pergament papier india	1.00
One kr. pergament papier india	1.60
One fourth kr. natrium jodatum	7.50
One fourth kr. natrium jodatum One half kr. natrium hypophosphoros	3.50
One half kr. natrium fluvratum neutral	2.2
One half kr. natrium fluvratum sauer	2.50
One hall be havined buttand banch	2,0

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Five kr. natrium chlorat puriss	M 9 95	
Two kr natrium hydric alcohden	5.60	
Two kr. natrium hydric alcohdep Two kr. natrium hydric alcohdep lac	6.00	
One half kr natrium hydric nuriss	9.00	
One half kr. natrium hydric puriss	11.20	
Fifteen and one half kr. natrium carbon crist puriss	4.35	
Thirty kr. natrium bisulfuros sice	11.40	
Five kr. natrium arsenicic	3.25	
Five kr. natrium arsenico	3.50	
Two kr. natrium aluminat	1.20	,
One half kr. natrium acthylosulfuric cuit		,
One nan kr. natrium actinylosumuric cuit	2.25	
Five kr. natrium acetic puriss cirty	3.25	
Ten kr. mangan peroxydat astiff	5.00	
Ten kr. mangan peroxydat nat pyro	6.00	
Ten kr. mangan peroxydat pyrolüs pu	5.50	
One half kr. magnos sulfuros praecip	1.50	
Five kr. mangan peroxydat imst	3.75	
One kr. magnos sulfuros tech One half kr. caducium	1.75	
One half kr. caducium	2.50	
One kr. ammon sulfuric pur	1.00	
Two kr. ammon oxalic pur	4.50	
Two kr. ammon nitric pur	4.00	
Cases and packing	95.35	
Consul's certificate	12.60	
_ <del>_</del>		
M.	596.10	<b>\$144</b> 55
	44.00	
Freight to Hamburg on seven cases—J. R. McDonald & Co. M. Receiving, cartage, and shipping—J. R. McDonald & Co. Commission—J. R. McDonald & Co. Freight to San Francisco—J. R. McDonald & Co.	11.60	
Receiving, cartage, and snipping—J. R. McDonaid & Co	20.40	
Commission—J. R. McDonald & Co.	10.50	
Freight to San Francisco—J. R. McDonald & Co	102.50	
v~	151.05	00.00
Expressage—Patterson & Co  Seven thousand three hundred cubic feet gas—Oakland Gas Co	151.05	36 63
Parine the use and three hundred on his fact and Oakland Cas Co		19 18
Bill of E. de Haën, in marks; total in dollars and cents:		18 25
One cask ammon chlorat	97 10	
One cask animon chiorat		
One cask ammon carbonic	35.00	
One cask ferrum sulfurat	26.40	
One cask ferrum sulfurat Twenty kr. sulfer sublim	26.40 5.20	
One cask ferrum sulfurat Twenty kr. sulfer ruffuiat Twenty kr. sulfer ruffuiat	26.40 5.20 3.60	
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One cask ferrum sulfurat Twenty kr. sulfer sulfiniat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd	26.40 5.20 3.60 17.50 13.00 15.00	
One cask ferrum sulfurat Twenty kr. sulfer sulfiniat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd	26.40 5.20 3.60 17.50 13.00 15.00 5.50	
One cask ferrum sulfurat Twenty kr. sulfer sublim Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd Ten kr. mang. peroxyd One hundred cys, zinc metall, ground	26.40 5.20 3.60 17.50 13.00 15.00 5.50	
One cask ferrum sulfurat Twenty kr. sulfer ruffuiat Tiventy kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang, peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand	26.40 5.20 3.60 17.50 13.00 15.00 5.50 .25 6.00	
One cask ferrum sulfurat Twenty kr. sulfer ruffuiat Tiventy kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang, peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand	26.40 5.20 8.60 17.50 13.00 15.00 5.50 .25 6.00 8.75	
One cask ferrum sulfurat Twenty kr. sulfer sublim Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac	26.40 5.20 8.60 17.50 13.00 15.00 5.50 .25 6.00 8.75 24.00	
One cask ferrum sulfurat Twenty kr. sulfer sublim Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang, peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac. Ten kr. nitr caust pur slochol def	26.40 5.20 8.60 17.50 13.00 5.50 .25 6.00 8.75 24.00 30.00	
One cask ferrum sulfurat Twenty kr. sulfer sublim Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang, peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac. Ten kr. nitr caust pur slochol def	26.40 5.20 8.60 17.50 13.00 15.00 5.50 .25 6.00 8.75 24.00 80.00 80.00	
One cask ferrum sulfurat Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac Ten kr. nitr caust pur alcah def Twenty kr. kali caust pur alcah def	26.40 5.20 8.60 17.50 13.00 15.00 5.50 .25 6.00 8.75 24.00 80.00 15.00	
One cask ferrum sulfurat Twenty kr. sulfer sublim Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac Ten kr. nitr caust pur alcohol def Twenty kr. kali caust pur ibac Five kr, kali caust pur alcohol def Twenty kr. kali caust pur alcohol def Ten kr. ammon aitris cristpere	26.40 5.20 8.60 17.50 13.00 15.00 5.50 .25 6.00 8.75 24.00 80.00 15.00 11.50	
One cask ferrum sulfurat Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac. Ten kr. nitr caust pur alcah def Twenty kr. kali caust pur alcah def Ten kr. kali caust pur alcah def Ten kr. ammon aitris cristpere Ten kr. arsenic metallic	26.40 5.20 8.60 17.50 13.00 15.00 5.50 .25 6.00 8.75 24.00 80.00 15.00 11.50 10.00	
One cask ferrum sulfurat Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac Ten kr. nitr caust pur alcohol def Twenty kr. kali caust pur ibac Ten kr. nitr caust pur alcah def Ten kr. ammon aitris cristpere Ten kr. assenic metallic Ten kr. assenic metallic	26.40 5.20 3.60 17.50 13.00 5.50 5.25 6.00 8.75 24.00 30.00 11.50 11.00 3.40	
One cask ferrum sulfurat Twenty kr. sulfer sublim Twenty kr. sulfer ruffuiat Five kr. slamum metall, ground Ten kr. kali chloric pur cey Twenty-five kr. mang. peroxyd Ten kr. mang. peroxyd One hundred cys. zinc metall, ground Twenty kr. cale chlorat siec cand Five kr. kali firmany ciro Twenty kr. nitr caust pur ibac Ten kr. nitr caust pur alcohol def Twenty kr. kali caust pur ibac Five kr. kali caust pur alcah def Ten kr. ammon aitris cristpere Ten kr. ascid arsenicos Ten kr. acid arsenicos Twenty kr. calcium fleo	26.40 5.20 17.50 13.00 15.50 .25 6.00 30.00 30.00 11.50 11.50 10.00 3.40 2.20	
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One copper distilling apparatus—Eimer & Amend		25 00
Three hundred and twenty-two pounds aqua ammonia—San Francisco	Gas Co.	25 75
Expressage—Patterson & Co		5 50
Seven thousand nine hundred cubic feet gas—Oakland Gas Co.		19 75
Customs fees seven cases chemicals—G. W. Reed		4 00
State toll on goods from Hamburg—William Wolff & Co.		10
Freight—Southern Pacific Co		3 70
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Expressage—Patterson & Co.		5 00
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Expressage—Patterson & Co.  Two hundred gallons Extra Star oil—Whittier, Fuller & Co.  Bill of Franz Schilling, in marks; total in dollars and cents:	Marks.	5 00
Expressage—Patterson & Co Two hundred gallons Extra Star oil—Whittier, Fuller & Co Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr.	Marks. 25.08	5 00
Insurance—Canton Insurance Co. Five tins caustic soda One copper distilling apparatus—Eimer & Amend Three hundred and twenty-two pounds aqua ammonia—San Francisco Expressage—Patterson & Co. Seven thousand nine hundred cubic feet gas—Oakland Gas Co. Customs fees seven cases chemicals—G. W. Reed State toll on goods from Hamburg—William Wolff & Co. Freight—Southern Pacific Co. Expressage—Patterson & Co. Two hundred gallons Extra Star oil—Whittier, Fuller & Co. Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr. Fifty stg. T rotoren diverse	Marks. 25.08 7.50	5 00
Expressage—Patterson & Co  Two hundred gallons Extra Star oil—Whittier, Fuller & Co  Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr  Fifty stg. T rotoren diverse  Thirty-four stg. retorten, 500 gr	Marks. 25.08 7.50 12.92	5 00
Expressage—Patterson & Co.  Two hundred gallons Extra Star oil—Whittier, Fuller & Co.  Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr.  Fifty stg. T rotoren diverse Thirty-four stg. retorten, 500 gr.  Fifty-eight stg. retorten, 250 gr.	Marks. 25.08 7.50 12.92 17.40	5 00
Expressage—Patterson & Co. Two hundred gallons Extra Star oil—Whittier, Fuller & Co. Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr. Fifty stg. T rotoren diverse Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr.	Marks. 25.08 7.50 12.92 17.40 12.60	5 00
Expressage—Patterson & Co.  Two hundred gallons Extra Star oil—Whittier, Fuller & Co. Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr. Fifty stg. T rotoren diverse Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr.	Marks. 25.08 7.50 12.92 17.40 12.60 18.90	5 00
Expressage—Patterson & Co.  Two hundred gallons Extra Star oil—Whittier, Fuller & Co.  Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr.  Fifty stg. T rotoren diverse Thirty-four stg. retorten, 500 gr.  Fifty-eight stg. retorten, 250 gr.  Forty-two stg. retorten, 250 gr.  One hundred and five stg. retorten, 60 gr.  Forty stg. retorten, 100 gr.	Marks. 25.08 7.50 12.92 17.40 12.60 18.90 8.00	5 00
Expressage—Patterson & Co.  Two hundred gallons Extra Star oil—Whittier, Fuller & Co.  Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 500 gr.  Fifty stg. T rotoren diverse  Thirty-four stg. retorten, 500 gr.  Fifty-eight stg. retorten, 250 gr.  Forty-two stg. retorten, 250 gr.  One hundred and five stg. retorten, 60 gr.  Forty stg. retorten, 100 gr.  One hundred and five stg. retorten, 100 gr.	Marks. 25.08 7.50 12.92 17.40 12.60 18.90 8.00	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr.	12.92 17.40 12.60 18.90 8.00 26.25	5 00
Thirty-four stg. retorten, 500 gr.  Fifty-eight stg. retorten, 250 gr.  Forty-two stg. retorten, 250 gr.  One hundred and five stg. retorten, 60 gr.  Forty stg. retorten, 100 gr.  One hundred and five stg. rochflaschen, 1,000 gr.  One hundred and ten stg. rochflaschen, 1,000 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05	5 00
Thirty-four stg. retorten, 500 gr.  Fifty-eight stg. retorten, 250 gr.  Forty-two stg. retorten, 250 gr.  One hundred and five stg. retorten, 60 gr.  Forty stg. retorten, 100 gr.  One hundred and five stg. rochflaschen, 1,000 gr.  One hundred and ten stg. rochflaschen, 1,000 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05	5 00
Thirty-four stg. retorten, 500 gr.  Fifty-eight stg. retorten, 250 gr.  Forty-two stg. retorten, 250 gr.  One hundred and five stg. retorten, 60 gr.  Forty stg. retorten, 100 gr.  One hundred and five stg. rochflaschen, 1,000 gr.  One hundred and ten stg. rochflaschen, 1,000 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and five stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1000 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 3.85 5.20 6.50	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and five stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1000 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 3.85 5.20 6.50	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and five stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1000 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 3.85 5.20 6.50	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and five stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1000 gr.	12.92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 3.85 5.20 6.50	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 100 gr. Eleven stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 50  gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser	12,92 17.40 12,60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 2.00 3.85 5.20 9.00 20.00 4.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One hundred stg. reagirglaser	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 3.00 4.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One thousand stg. reagirglaser One thousand stg. reagirglaser One thousand stg. reagirglaser	12,92 17.40 12,60 18.90 8.00 26.25 6.05 1.44 1.40 2.00 3.85 5.20 6.50 9.00 20.00 4.40 1.75	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 100 gr. Eleven stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. reagirglaser Fifty stg. reagirglaser Fifty stg. reagirglaser	12,92 17.40 12,60 18.90 8.00 26.25 6.05 1.44 1.40 2.00 3.85 5.20 6.50 9.00 20.00 4.40 18.00 18.00	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 260 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12,60 18,90 8.00 26,25 6.05 1.44 1.76 2.00 6.50 9.00 20.00 3.00 4.40 18,00 1.75	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ton stg. fraklonspollen, 500 gr. Twelve stg. fraklonspollen, 500 gr. Twelve stg. fraklonspollen, 500 gr. Twelve stg. fraklonspollen, 500 gr. Twelve stg. fraklonspollen, 500 gr. Twelve stg. fraklonspollen, 500 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One thousand stg. reagirglaser Fifty stg. reagirglaser Fifty stg. praparetenglsier. Fifty stg. praparetenglsier. Fifty stg. ptaparetenglsier.	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 2.00 3.85 5.20 6.50 9.00 20.00 4.40 1.75 .60 .75	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 750 gr. Trwo hundred stg. reagirglaser One thousand stg. reagirglaser One thousand stg. reagirglaser Fifty stg. reagirglaser Fifty stg. reaparetenglsier. Fifty stg. praparetenglsier.	12,92 17.40 12,60 18,90 8.00 26,25 6.05 1.44 1.40 1.76 2.00 6.50 9.00 20,00 4.40 18,00 1.75 1.00 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 260 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 4.40 1.75 6.60 1.75 1.00 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 260 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 4.40 1.75 6.60 1.75 1.00 1.40	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One hundred stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12.60 8.00 8.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 4.40 1.75 .60 1.75 1.00 1.40 1.52 6.52 6.53 6.50 9.00 1.75	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One hundred stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12.60 8.00 8.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 4.40 1.75 .60 1.75 1.00 1.40 1.52 6.52 6.53 6.50 9.00 1.75	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 16 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12,60 8.00 26,25 6.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 3.00 4.40 1.75 .60 1.75 1.00 1.50 6.75 7.00 18.00	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 16 gr. Ten stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Tvelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One hundred stg. reagirglaser Fifty stg. praparetenglsier Fifty stg. frichter, 25 cm Fifteen stg. frichter, 25 cm Ten stg. frichter, 5 cm. One hundred stg. kochplerchen, 500 gr. One hundred stg. kochplerchen, 500 gr. One hundred stg. kochplerchen, 500 gr.	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 3.00 4.40 1.75 .60 .75 1.00 1.40 1.76 1.70 1.40 1.76	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 16 gr. Ten stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Tvelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser One hundred stg. reagirglaser Fifty stg. praparetenglsier Fifty stg. frichter, 25 cm Fifteen stg. frichter, 25 cm Ten stg. frichter, 5 cm. One hundred stg. kochplerchen, 500 gr. One hundred stg. kochplerchen, 500 gr. One hundred stg. kochplerchen, 500 gr.	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.76 2.00 3.85 5.20 6.50 9.00 20.00 3.00 4.40 1.75 .60 .75 1.00 1.40 1.76 1.70 1.40 1.76	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 16 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 2.00 8.50 9.00 20.00 3.00 4.40 1.75 1.00 1.50 6.75 7.00 18.00 6.60 6.50 6.50 5.50	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 16 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12.60 18.90 8.00 26.25 6.05 1.44 1.40 1.76 2.00 8.50 9.00 20.00 3.00 4.40 1.75 1.00 1.50 6.75 7.00 18.00 6.60 6.50 6.50 5.50	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and five stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Twelve stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Tren stg. fraklonspollen, 750 gr. Sifty stg. praparetenglsier. Fifty stg. praparetenglsier. Fifty stg. praparetenglsier. Fifty stg. praparetenglsier. Sixteen stg. frichter, 2cm. Ten stg. frichter, 5 cm. One hundred and ten stg. kochplerchen, 100 gr. One hundred and ten stg. kochplerchen, 30 gr. Seventy-five stg. kugchihren schmerchn One hundred stg. kochdiaschen, 250 gr. Six stg. sicherheitsrohren	12,92 17.40 12,60 18,90 26,25 6,05 1,44 1,40 1,76 2,00 6,50 9,00 20,00 4,40 18,00 1,75 1,00 1,40 16,20 6,75 1,00 1,40 15,20 6,50 15,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,	5 00
Thirty-four stg. retorten, 500 gr. Fifty-eight stg. retorten, 250 gr. Forty-two stg. retorten, 250 gr. One hundred and five stg. retorten, 60 gr. Forty stg. retorten, 100 gr. One hundred and five stg. rochflaschen, 1,000 gr. One hundred and ten stg. rochflaschen, 60 gr. Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 16 gr. Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 1,000 gr. One thousand stg. reagirglaser One hundred stg. reagirglaser Two hundred stg. reagirglaser Two hundred stg. reagirglaser Fifty stg. reagirglaser Fifty stg. praparetenglsier	12,92 17.40 12,60 18,90 26,25 6,05 1,44 1,40 1,76 2,00 6,50 9,00 20,00 4,40 18,00 1,75 1,00 1,40 16,20 6,75 1,00 1,40 15,20 6,50 15,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,	5 00

Twelve stg. sicherheitsrohren Twenty-six stg. sicherheitsrohren	M.3.00
Twenty-six stg. sicherheitsrohren	4.68
Twenty-six stg. sicherheitsrohren Six stg. sicherheitsrohren	3.90
Four stg. spritzflaschen, 500 gr.  One stg. spritzflaschen, 1,000 gr.  Fifty stg. kugelrohren m. 2 kugeln  Twenty-five stg. kugelrohren m. 1 kugeln  Five stg. trighter No 246	2.10 4.00
One sto spritzflaschen 1000 gr	1.75
Fifty stg. kugelrohren m. 2 kugeln	15.00
Twenty-five stg. kugelrohren m. 1 kugeln	5.00
Twenty-five stg. kugelrohren m. 1 kugeln Five stg. trichter, No. 246 Twenty-six stg. trichter, No. 624 Two hundred and fifteen stg. trichter, No. 624 Two stg. cylinder m. Kropf One stg. cylinder m. Kropf One stg. cylinder m. Kropf One stg. cylinder m. Kropf Fifty stg. trichter, No. 624 Twenty-two stg. trichter, No. 624 Fifty-five stg. trichter, No. 624 One hundred and five stg. trichter, No. 624 Fifteen stg. retorten m. sdf. 2.000 gr. No. 629	2.25
Twenty-six stg. trichter, No. 624	6.50
Two hundred and fifteen stg. trichter, No. 624	21.50
Two stg. cylinder m. Kropf	.64
One stg. cylinder m. Kropf	.40
One stg. cylinder m. Kropf	.52
One stg. cylinder m. Kropi	.62
Twenty two star trichton No. 624	$\frac{3.00}{7.92}$
Wifty-five sto trichter No. 694	11.00
One hundred and five sto trichter No. 694	8.40
Ten stg. retorten m. sdf, 2,000 gr., No. 629.  Ten stg. retorten, m. sdf, 1,000 gr., No. 629.  Two hundred stg. trichter, No. 624.  Six stg. trichter, No. 664.  One stg. reagierglasergestell kirschl One stg. reagierglasergestell kirschl	12.00
Ten stg. retorten, m. sdf. 1.000 gr., No. 629	5.50
Two hundred stg. trichter, No. 624	27.00
Six stg. trichter, No. 664	6.00
One stg. reagierglasergestell kirschl	1.00
One stg. reagierglasergestell kirschl	1.20
One stg. reagierglasergestell mahagoniholz	1.50
One stg. reagierglasergestell mahagoniholz.	2.00
One stg. reagierglasergestell kirschl One stg. reagierglasergestell mahagoniholz One stg. reagierglasergestell mahagoniholz One stg. reagierglasergestell mahagoniholz One hundred and eight stg. kochflaschen, 200 gr. Thirty stg. retorten, 100 gr. One hundred stg. Hoffmeister's schalschen One hundred stg. glasthreinen Forty stg. kochflaschen, 200 gr. Twenty stg. retorten, 100 gr. Tren stg. Woulfsche flaschen, 150 gr. Twenty-five stg. Woulfsche flaschen, 200 gr. Twenty-five stg. Woulfsche flaschen, 250 gr. Ten stg. Woulfsche flaschen, 500 gr.	9.72
One hundred star Hotfmeigten's scholashen	16.50
One hundred stg. nonneister's schalschen.	5.00 1.80
Torty sto bookflaschen 900 or	19.20
Twenty sto retorten 100 or	4.00
Ten stg. Woulfsche flaschen, 150 gr.	4.25
Twenty-five stg. Woulfsche flaschen, 200 gr.	11.25
Twenty-five stg. Woulfsche flaschen, 250 gr.	12.50
Ten stg. Woulfsche flaschen, 500 gr.	7.00
Six stg. Woulfsche flaschen, 1,000 gr.	5.40
Two stg. Woulfsche flaschen, 500 gr. Six stg. Woulfsche flaschen, 1,000 gr. Two stg. Woulfsche flaschen, 1,500 gr. Two stg. Woulfsche flaschen, 2,000 gr. Two stg. Woulfsche flaschen, 160 gr. Two stg. Woulfsche flaschen, 200 gr.	2.60
Two stg. Woulfsche flaschen, 2,000 gr.	3.00
Two stg. Woulfsche flaschen, 150 gr. Two stg. Woulfsche flaschen, 200 gr. Two stg. Woulfsche flaschen, 250 gr. Two stg. Woulfsche flaschen, 500 gr. Three stg. Woulfsche flaschen Two stg. Woulfsche flaschen Two stg. Woulfsche flaschen Eight stg. adklarflaschen, 2,000 gr. Three stg. cylinder m. Rand Two stg. cylinder m. Rand Two stg. cylinder m. Rand Two stg. cylinder m. Rand Forty-six stg. rollflaschen mit. Thirty-two stg. retorten, No. 629 Twelve stg. messkolben ohne, 200 cc.	.80
Two stg. Woulfsche flaschen, 200 gr.	.80
Two stg. Woulden aschen, 200 gr.	.90 1.20
Three etc. Woulfache fleschen	2.40
Two sto Woulfsche flaschen	2.40
Two stg. Woulfsche flaschen	3.00
Eight stg. adklarflaschen, 2.000 gr.	8.80
Three stg. cylinder m. Rand	1.80
Two stg. cylinder m. Rand	.40
Two stg. cylinder m. Rand	.36
Forty-six stg. rollflaschen mit	30.36
Thirty-two stg. retorten, No. 629	17.60
Twelve stg. messkolben onne, 200 cc.	4.20
Thirty-two stg. retorten, No. 629 Twelve stg. messkolben ohne, 200 cc. Twenty-two stg. messkolben ohne, 25 cc. Twenty-two stg. messkolben ohne, 20 cc. Twenty stg. messkolben ohne, 10 cc. Twelve stg. messkolben ohne, 5 cc. Four stg. messkolben ohne Sixty-two stg. rollflaschen in gen, 1,000 gr. Twenty-five stg. kochflaschen, 3,000 gr. Twenty-four stg. apparate, No. 359 Fifty stg. filtrirflaschen, 750 gr. Twelve stg. filtrirflaschen, 1,000 gr. Nine stg. filtrirflaschen, 2,000 gr.	3.30 3.30
Twenty ster messkolben ohne 10 co	2.00
Twolve sto messkolben ohne 5 cc	1.20
Four sto messkolben ohne	1.20
Sixty-two stg. rollflaschen in gen. 1.000 gr.	23.56
Twenty-five stg. kochflaschen, 3,000 gr.	18.75
Twenty-four stg. apparate, No. 359	24.00
Fifty stg. filtrirflaschen, 750 gr	35.00
Twelve stg. filtrirflaschen, 1,000 gr.	9.00
Nine stg. filtrirflaschen, 2,000 gr. One stg. mischcylinder, 500 cc.	
One stg. mischcylinder, 500 cc.	2.00
One stg. mischeylinder, 1,000 cc.	3.20
One stg. mischcylinder, 2,000 cc.	5.30 4.80
Ten stg. kochflaschen, 2,000 gr. Two stg. kochflaschen, 4,000 gr.	1.68
Twenty-five stg. trichter, 5 cm.	1.75
Thirty-five stg. trichter, 7 cm.	2.80
Fifty-six stg. trichter, 8 cm.	5.60
Thirty-five stg. trichter, 10 cm.	4.72
Twenty stg. trichter, 13 cm. Thirty salz. becherglaser, No. 1-5	4.00
Thirty salz. becherglaser, No. 1-5	22.50
monty four star kochflaschen 4 000 ar	20 16

Ten stg. wageglaschen, No. 722, 10 gr. Twenty-two stg. wageglaschen, No. 722, 20 gr. Twelve stg. wageglaschen, No. 722, 30 gr. Six stg. wageglaschen, No. 720, 50 gr. Seven stg. wageglaschen, No. 720 Five stg. messkolben mit stopsel, 100 cc.	M.2.80
Twenty-two stg. wageglaschen, No. 722, 20 gr.	6.60
Twelve stg. wageglaschen, No. 722, 30 gr.	4.20
Six stg. wageglaschen, No. 722, 50 gr.	2.40
Seven stg. wageglaschen, No. 720	2.80
Five stg. messkolben mit stopsel, 100 cc.	1.50
DIA BUE, INCOMPLECE INTO BUODES, 120 CO	#. <del>T</del> U
Three stg. messkolben mit stopsel, 250 cc.	2.10
Five stg. messkolben ohne, 250 cc.	2.25
Three stg. messkolben ohne	1.20
Ten stg. retorten, 100 gr.	2.00
Fifty-two ko. massive stabe	52.00
Thirty-one stg. rollflaschen in gen stpe, 500 gr.	8.37
Two stg. rollnaschen in gen stpe, 1,000 gr.	.76
Six stg. illtririaschen stark glase, 1,000 gr.	4.80
Fity-six stg. Hitrifiaschen, /ou gr.	28.00
Welve sig. http://dach.m. deal. in aleas 1 000 cm	4.80
Two stg. rollfaschen in gen stpe, 1,000 gr. Six stg. filtrirflaschen stark glase, 1,500 gr. Fifty-six stg. filtrirflaschen, 750 gr. Twelve stg. filtrirflaschen, 500 gr. Fifty-one stg. filtrirflaschen stark in glase, 1,000 gr.	30.60 3.00
One sig. scheducturchier, 2 sur	4.00
One stg. scheidertrichter, 3 str.	11.00
Two stg. apparate kipp gross One stg. cylinder, 1,000 cc. One stg. cylinder, 2,000 cc.	2.70
One stee eviludes 2,000 cc.	4.50
One stg. cylinder, 2,000 cc.	.45
Fighteen ste wellnington 1 ce	1.80
Eighteen stg. vollpipetten, 2 cc. Fifteen stg. vollpipetten, 2 cc.	1.80
Giv ata vallainetten 2 co	.84
Six stg. vollpipetten, 3 cc. Six stg. vollpipetten, 4 cc.	.90
Six stg. vollpipetten, 5 cc.	.90
Twelve stg. vollpipetten, 10 cc.	2.16
Six sta vallainattan 15 co	1.20
Six stg. vollpipetten, 15 cc. Five stg. vollpipetten, 20 cc.	1.25
Twelve stg. vollpipetten, 25 cc.	8.60
Siv ster well ninetten 20 ce	2.10
Six stg. vollpipetten, 80 cc. Six stg. vollpipetten, 40 cc.	2.40
Six stg. vollpipetten, 50 cc.	2.40
Three ster vollningtten 75 cc	1.27
Three stg. vollpipetten, 75 cc. Three stg. vollpipetten, 100 cc.	1.50
Three stg. vollpipetten, 150 cc.	1.71
Three ste vollninetten 200 cc.	2.25
Three stg. vollpipetten, 200 cc. Two stg. gasmaschfluschen, 500 gr.	2.50
Three stg. gasmaschfluschen, 250 gr.	3.30
Three stg. gasmaschfluschen, 250 gr.  Three stg. gasmaschfluschen, 300 gr. One stg. apparate incl pappkiote, No. 365. One stg. apparate incl pappkiote, No. 368. One stg. Universal araometer One stg. araometer One stg. araometer One stg. araometer	3.30
One stg. apparate incl pappkiote. No. 365	2.15
One stg. apparate incl pappkiote, No. 368	1.10
One stg. Universal araometer	2.00
One stg. araometer	.55
One stg. araometer	.65
Three stg. futterale	.30
One stg. graunnflasche m. thermon, 50 gr.	2.50
Three stg. futterale One stg. graunnflasche m. thermon, 50 gr. Ten stg. burettenschroimmer One stg. scheidertrichter cylinderf	4.75
One stg. scheidertrichter cylinderf	1.25
Une stg. scheidertrichter kugelf.	1.25
One stg. burette ohne Hahn, 25 cc.	.70
Three stg. burette ohne Hahn, 501 cc.	8.90
Three stg. burette ohne Hahn, 501 cc. Two stg. burette ohne Hahn, WO1 cc.	4.40
One satz burette ohne mit fuss	5.00
One satz burette ohne mit fuss	7.00
Six s. messkolben, 50 ccm.	1.20
Four s. messkolben, 500 ccm.	2.40
Five s. messkolben, 1,000 ccm.	4.00
Five s. messkolben, 1,000 ccm. Six s. messkolben, 1,000 ccm. mit stg.	6.60
Filty 8, Starglaser, 2 cm.	3.50
Fifty s. sthrglaser, 3 cm.	4.00
One hundred s. sthrglaser, 4 cm.	10.00
Fifty s. sthrglaser, 3 cm	12.60
One hundred s. sthrglaser, 7 cm.	15.00
Fifty s. sthrglaser, 9 cm.	10.00
One hundred s. sthrglaser, 7 cm. Fifty s. sthrglaser, 9 cm. Twenty-five s. sthrglaser, 12 cm.	7.50
Ten s. sthrglaser, 15 cm. Six s. sthrglaser, 18 cm.	5.00
Six s. sthrglaser, 18 cm.	4.20
Four s. sthrglaser, 20 cm.	3.20
Three s. sthrglaser, 25 cm. One satz Hoffmann'sche apparate.	5.85
Une satz Hoffmann'sche apparate	15.00
One str. Hoffmann'sche apparate	7.50
One str. fudiometer	3.00
1314 •	
Dist	

One str. burette, $50_{10}^{+}$ cc.	M.2.00
One satz Hoffmann'sche apparate.	
One satz Hommann sche apparate	20.00
One stp. Hoffmann'sche apparate One stp. Hoffmann'sche apparate	9.00
One stp. Hoffmann'sche apparate	8.50
Twenty-five satze becherglaser, Nos. 1-8	
I wenty-nive sauze becheiglaser, Nos. 1-6	37.50
Fifty ko. schrver schmelzbare rohren	140.00
Twenty satze becherglaser, Nos. 1-12 Eleven satze becherglaser, Nos. 1-8	60.00
Though no two hoshowyleson Nos 1 8	
Mieven satze bechergiaser, Nos. 1-5	16.50
Six satze becherglaser, Nos. 1-16	28.50
Six satze becherglaser, Nos. 1-16 Thirty-one satze becherglaser, Nos. 1-10	62.00
Four satze becherglaser, Nos. 1–16. Nineteen satz becherglaser, Nos. 1–10. Thirty satze becherglaser, Nos. 1–8.	
Four satze bechergiaser, Nos. 1-10	19.00
Nineteen satz becherglaser, Nos. 1-10	38.00
Thirty satza hachardissar Nos 1-8	45.00
Thirty Sauze Occining asset, 1005. 1—0	
Thirty sts. retorten mit stpe, 1,000 gr. Thirteen sts. retorten mit stpe, 2,000 gr.	16.50
Thirteen sts. retorten mit stne. 2.000 gr.	10.40
Thirty five sta retenton mit stae 200 cm	9.45
Thirty-nive ses. rewriten into stee, 200 gr	
Thirty-six satze becherglaser, Nos. 1-8	<b>54.00</b>
Seventy satze becherglaser, Nos. 1-5	52.50
One hundred and covered to be head and see 1 9	
Thirty-five sts. retorten mit stpe, 200 gr. Thirty-six satze becherglaser, Nos. 1-8 Seventy satze becherglaser, Nos. 1-5 One hundred and seventy satze becherglaser, Nos. 1-8.	64.60
Nine stg. acklarflaschen, 1,000 gr.	6.75
Eleven stg. exikatoren	19.80
This had not a manufacture like forms ON and lar	
Eighteen stg. vorstosse die form, zo cm. ig	7.20
Fourteen stg. vorstosse die form, 30 cm. lg.	7.00
Fourteen stg. vorstosse die form 40 cm. lg.	8.40
Fourteen stg. vorstosse die form, 40 cm. lg. Eight stg. rollflaschen m. dekelote, 500 gr. Thirty-five satze bechenglaser, Nos. 1–3.	2.80
Eight stg. ronnaschen m. dekelote, soo gr.	
Thirty-five satze becherglaser, Nos. 1–3.	13.30
Seventy sta retorten 200 ar	18.90
Seventy stg. retorten, 200 gr. One stg. gaspipette n. himpelary stativ	
One stg. gaspipette n. nimpelary stativ	2.75
One stg. gaspipette n. himpelary stativ	2.75
One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ	3.60
One stg. gaspipette ii. inimpetaty stativ	
One stg. gaspipette n. nimpelary stativ	3.60
One stg. gaspinette n. himpelary stativ	7.75
One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ	6.75
One sig. gaspipette in imperary stativ	
One stg. gaspipette n. himpelary stativ	2.85
One sto, pashinette n. himbeiary stativ	4.60
One ata magninette n himpelem atativ	5.75
One sig. gaspipette it. nimpeiary stativ	
One stg. gaspipette n. himpelary stativ	2.75
One stor gasninette n himnelary stativ	3.00
One seg. Baspipesee in minipolary season	
Thirty-two stf. retorten m. stfl, 100 gr.	6.40
Thirty-two stf. retorten m. stfl, 100 gr.	
One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ Thirty-two stf. retorten m. stfi, 100 gr. Betrag der verpackungskosten, etc.	372.70
Thirty-two stf. retorten m. stfl, 100 gr.  Betrag der verpackungskosten, etc.  Beglaucigungskosten	
Degraucigungskosten	372.70 12.10
Degraucigungskosten	372.70 12.10
Thirty-two stf. retorten m. stfl, 100 gr.  Betrag der verpackungskosten, etc.  Beglaucigungskosten  Bruttocetrag der factura  M.	372.70 12.10
Bruttocetrag der factura	872.70 12.10 2,447.55
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks.
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks.
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks. 103.75
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks. 103.75 173.20
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks. 103.75 173.20 6.70
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks. 103.75 173.20 6.70
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65
Bruttocetrag der factura	372.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 28.60
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 28.60 30.25 6.00
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 28.60 30.25 6.00 10.00
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25 6.00 10.00 4.00
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25 6.00 10.00 4.00 13.75
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25 6.00 10.00 4.00 13.75
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25 6.00 10.00 4.00 13.75 18.20
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 26.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.60 38.85
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 26.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.60 38.85
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 38.85 47.50
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 1.00 4.00 13.75 13.20 11.00 5.60 28.80 97.60 38.35 47.50 16.75
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 38.85 47.50
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 38.35 47.50 16.75 12.45
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 38.35 47.50 16.75 12.45 31.75
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 38.35 47.50 16.75 12.45
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.80 30.25 6.00 10.00 4.00 13.75 18.20 11.00 5.50 28.80 97.80 38.35 47.50 12.45 31.75 14.40
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 38.85 47.50 16.75 12.45 31.75 14.40
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 72.50 26.80 30.25 6.00 10.00 4.00 13.75 18.20 11.00 5.50 28.80 97.80 38.35 47.50 12.45 31.75 14.40
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 38.85 47.50 16.75 12.45 31.75 14.40
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 28.60 30.25 6.00 10.00 4.00 13.75 18.20 11.00 5.50 28.80 97.60 38.35 47.50 16.75 12.45 31.75 12.45 31.75 14.40 1.792.20 28.70
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 97.80 38.35 47.50 16.76 12.45 31.75 14.40 1. 792.20 28.70 1. 763.50
Bruttocetrag der factura	872.70 12.10 2,447.55 Marks. 103.75 173.20 6.70 5.65 7.50 72.50 28.60 30.25 6.00 10.00 4.00 13.75 18.20 11.00 5.50 28.80 97.60 38.35 47.50 16.75 12.45 31.75 12.45 31.75 14.40 1.792.20 28.70
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.60 38.35 47.50 16.75 12.45 31.75 12.45 31.75 14.40 1. 792.20 28.70 1. 768.50
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.80 97.80 38.35 47.50 16.76 12.45 31.75 14.40 1. 792.20 28.70 1. 763.50
Bruttocetrag der factura	872.70 12.10 2,447.55  Marks. 103.75 173.20 6.70 5.65 7.50 28.60 30.25 6.00 10.00 4.00 13.75 13.20 11.00 5.50 28.80 97.60 38.85 47.50 16.75 12.45 31.75 12.45 31.75 14.40 1. 792.20 28.70 1. 768.50

M. 800.00

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Bill of E. Merck, in marks; total in dollars and cents:	Marks.
Five kilograms acid nitric, fuming.  Forty kilograms acid hydrochloric, pure.  Ten kilograms acidum hydrochloric, pure.	8.00
Forty kilograms acid hydrochloric, pure	20.00
Ten kilograms acidum hydrochloric, pure	5.00
Ten kilograms acidum hydrochloric, pure One kilogram acid hydrosilico fluoric Ten kilograms acid sulphuric, Five kilograms acid sulphuric, fuming	10.00 16.00
Ten kilograms acid sulphuric	10.00
Five kilograms acid sulphuric, fuming	7.00
Five kilograms alcohol, absolute pure One kilogram ethce, c.p. One thousand and ninety-four kilograms sulphuric acid	12.00
One kilogram ethce, c.p.	2.00
One thousand and ninety-four kilograms sulphuric acid	19.69
RIVE KILOGERIUS RCIO RCELIC C D. CODC	10.00
Ten grams acid carminic. Five hundred grams acid chromic.	3.00
Five hundred grams acid molybdic	4.00 4.00
Five hundred grams acid molybdicOne hundred grams acid molybdic, free	1.60
One hundred grams acid pyrogassic	3.00
One hundred grams acid pyrogassic. Two kilograms acid tartaric. Ten kilograms ammonia carbonate.	9.00
Ten kilograms ammonia carbonate	16.00
rive kilograms ammonia chioride	6.00
One half kilogram ammonia fluoric	9.00
One half kilogram ammonia nitrate.	1.20 1.40
One half kilogram ammonia oxatate	3.25
One kilogram ammonia sulphate	2.00
One half bilagram harium agatata	2.50
Two kilograms barium carbonate	16.00
Two kilograms barium carbonate Two kilograms barium carbonate Two kilograms barium chloride One half kilogram barium hydrate One half kilogram calcium oriac One half kilogram calcium sulphate One half kilogram conper mehassic	10.00
One half kilogram barium hydrate	1.00
One half kilogram parlum nitrate	1.00
One half kilogram calcium gulnhata	27.00 2.75
One half kilogram copper mehassic	8.00
One half kilogram copper mebassic	8.00
One half kilogram fron sesquichloride	1.80
One half kilogram fron sesquichloride One half kilogram fron sulphate oxydul Five kilograms fron sulphiac sticks One kilogram fron ammonia	.80
Five kilograms fron sulphiac sticks	4.00
One kilogram Iron ammonia	4.50
One kilogram lead acetate Two kilograms lead chromate	1.40 16.00
One kilogram lead oxide	4.00
One kilogram hagwesium chlorice	3.00
One half kilogram hagwesium oxyac, free	12.00
One kilogram hagwesium sulphateOne half kilogram mercury bichloride	1.60
One half kilogram mercury bichloride.	4.50
One half kilogram mercury nitrate.	4.00
One half kilogram mercury oxide One kilogram copper sulphate	11.00 1.40
Two sheets litmus paper, red	.20
Two sheets litmus paper, vellow	.2ŏ
Ten grams platinum chlorice	14.00
Two kilograms potassium bichromate	4.80
one midplain possibiliti otherpiate inter-	2.40
One half kilogram potassium bromate	11.00
Two kilograms potassium carbonate One kilogram potassium chlorate	4.40 2.00
One half kilogram potassium chromate	1.80
One kilogram potassium cvanide	21.00
One kilogram potassium cyanide	4.00
One half kilogram potassium ferro cyanide	1.80
Five kilograms potassium hydroxide Two kilograms potassium hydroxide, sticks	50.00
Two kilograms potassium hydroxide, sticks	8.00
One half kilogram potassium iodiac	13.00 3.00
Two kilograms potassium nitrate One half kilogram potassium nitrite	3.50
One half kilogram potassium permanganate	6.00
One half kilogram potassium sulphate	.80
One quarter kilogram potassium rhodanate	1.38
Twenty grams silver metallic	6.00
Fifty grams silver nitrate One kilogram sodium acetate.	7.00
One kilogram sodium acetate	1.50 2.50
One kilogram sodium bicarbonate	2.00 1.25
One half kilogram sodium bisulphate	1.00
One half kilogram sodium bisulphite	6.00
Five kilograms sodium carbonate crist	8.00

One kilogram sodium carbonate crist, dry	M.2.50
One kilogram sodium chloride	6.00
Two kilograms sodium nitrate	2.50
Two kilograms sodium hydroxide, pure	10.00 3.80
One half kilogram sodium nitrate.	2.00
Two kilograms sodium bhyosulphate	2.00
One half kilogram sodium nosframate	1.88
Two kilograms sodium and ammonia	9.00
One half kilogram tin chloride One fourth kilogram uranium nitrate One kilogram zinc metallic, c. p. sticks	1.50 12,50
One kilogram zinc metallic. c. p. sticks	6.00
One kilogram zinc metallic	2,50
One kilogram zinc metallic One collection of alkaloids, 52 specimens One collection of glucosides, 72 specimens	80.00
One collection of glucosides, 72 specimens	100.00
One confection physiological preparation	75.00
Ten grains lacmoid, c. p. y. scales Five hundred grams lacmus com't	1.25 .65
Two hundred grams phenolyhbalcinc	16.00
One hundred grams methylorange	1.60
One hundred grams methylorange One hundred grams tropaclin Fifty sheets Gilmn's paper, red	2.50
Fifty sheets Gilmn's paper, red	2.00
Fifty sheets Gilmn's paper, blue One hundred sheets furmeric paper	2.00 4.00
Fifty sheats congo naner	2.00
Fifty sheets congo paper Thirty grams sulphanilic acid	1.20
Twenty grams naphthy'lamine Two hundred grams diphenylamine	.60
Two hundred grams diphenylamine	4.00
Two kilograms parchment paper Packing and shipping charges One hundred and four colored bottles	4.40
One hundred and four colored bettler	34.80 53.45
One jar	1.90
Öne jarConsular fees	10.70
<del>-</del>	
Musicht and changer I. D. McDanald & Co.	.974.15
Freight and charges—J. R. McDonald & Co. Bill of Robert Muencke, in marks; total in dollars and cents:	Marks.
One thousand runde filter 595, 5\( \) cm.	2.50
Two thousand runde filter 595, 7 cm.	5.30
One thousand runde filter 595, 5½ cm.  Two thousand runde filter 595, 7 cm.  Five thousand runde filter 595, 9 cm.	19.75
Five thousand runde hiter 990, 9 cm.	19.75 45.00
Ten thousand runde filter 595, 11 cm	19.75 45.00 50.00
Ten thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595 15 cm.	19.75 45.00 50.00 35.50
Ten thousand runde filter 595, 121 cm.  Ten thousand runde filter 595, 121 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 182 cm.  One thousand runde filter 595, 24 cm.	19.75 45.00 50.00
Ten thousand runde filter 595, 121 cm.  Ten thousand runde filter 595, 121 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 182 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00
True thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 15 cm.  One thousand runde filter 596, 18½ cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00 13.40
True thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 15 cm.  One thousand runde filter 596, 18½ cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00 13.40 15.75
True thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 15 cm.  One thousand runde filter 596, 18½ cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00 13.40 15.75 3.80
True thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 15 cm.  One thousand runde filter 596, 18½ cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00 13.40 15.75
True thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 32 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 596, 38 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Five thousand runde filter 597, 9 cm.  The thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 9 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00 13.40 15.75 3.80 8.00 29.00 71.00
True thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 22 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 596, 38 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 9 cm.  Five thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 9 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00 13.40 15.75 3.80 8.00 29.00 71.00 74.00
True thousand runde filter 595, 11 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 22 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 596, 38 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 9 cm.  Five thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 9 cm.	19.75 45.00 50.00 8.70 15.75 22.00 13.40 15.75 3.80 8.00 29.00 71.00 47.50
Ten thousand runde filter 595, 121 cm.  Ten thousand runde filter 595, 121 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 596, 381 cm.  One thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 7 cm.  Five thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 121 cm.  Ten thousand runde filter 597, 122 cm.  Five thousand runde filter 597, 125 cm.  One thousand runde filter 597, 126 cm.  Ten thousand runde filter 597, 126 cm.  Ten thousand runde filter 597, 126 cm.  Ten thousand runde filter 597, 18 cm.	19.75 45.00 50.00 35.50 8.70 15.75 22.00 13.40 15.75 3.80 8.00 29.00 71.00 47.50 12.60
Ten thousand runde filter 595, 121 cm.  Ten thousand runde filter 595, 121 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 596, 381 cm.  One thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 7 cm.  Five thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 121 cm.  Ten thousand runde filter 597, 122 cm.  Five thousand runde filter 597, 125 cm.  One thousand runde filter 597, 126 cm.  Ten thousand runde filter 597, 126 cm.  Ten thousand runde filter 597, 126 cm.  Ten thousand runde filter 597, 18 cm.	19.75 45.00 50.00 8.70 15.75 22.00 13.40 15.75 3.80 8.00 29.00 71.00 47.50
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 596, 38 cm.  One thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 7 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 12 cm.  The thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 24 cm.  One thousand runde filter 597, 27 cm.  Five thousand runde filter 597, 27 cm.  Five thousand runde filter 597, 28 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 74.00 12.60 18.90 25.00 15.25
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 38 cm.  Five hundred runde filter 596, 38 cm.  One thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 27 cm.  Five hundred runde filter 597, 27 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.	19.75 45.00 50.00 85.50 8.70 16.75 22.00 13.40 15.75 3.80 29.00 71.00 47.50 12.80 18.90 25.00 15.25 20.00
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 38 cm.  Five hundred runde filter 596, 38 cm.  One thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 27 cm.  Five hundred runde filter 597, 27 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.	19.75 45.00 50.00 55.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 47.50 12.80 18.90 25.00 15.25 20.00 38.00
Ten thousand runde filter 595, 121 cm.  Ten thousand runde filter 595, 121 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 595, 381 cm.  One thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 12 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 24 cm.  One thousand runde filter 597, 24 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 381 cm.  Five hundred runde filter 597, 382 cm.  Five hundred runde filter 597, 50 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 74.00 47.50 12.80 15.25 20.00 83.00
Ten thousand runde filter 595, 121 cm.  Ten thousand runde filter 595, 121 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 595, 381 cm.  One thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 12 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 24 cm.  One thousand runde filter 597, 24 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 381 cm.  Five hundred runde filter 597, 382 cm.  Five hundred runde filter 597, 50 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 47.50 12.80 18.90 25.00 15.25 20.00 38.00 16.00
Ten thousand runde filter 595, 121 cm.  Ten thousand runde filter 595, 121 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 32 cm.  Five hundred runde filter 595, 381 cm.  One thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 12 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 24 cm.  One thousand runde filter 597, 24 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 381 cm.  Five hundred runde filter 597, 382 cm.  Five hundred runde filter 597, 50 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 74.00 47.50 12.80 15.25 20.00 83.00
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 596, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 596, 38 cm.  Five hundred runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 27 cm.  Five thousand runde filter 597, 28 cm.  One thousand runde filter 597, 38 cm.  One thousand runde filter 597, 38 cm.  One thousand runde filter 597, 38 cm.  Five hundred runde filter 597, 38 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 597, 7 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 598, 12 cm.  One thousand runde filter 589, 7 cm.  Five hundred runde filter 589, 11 cm.  Two hundred runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 47.50 12.80 15.25 20.00 38.00 16.00 24.00 16.00 24.00 14.50 6.40
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 596, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 596, 38 cm.  Five hundred runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 27 cm.  Five thousand runde filter 597, 28 cm.  One thousand runde filter 597, 38 cm.  One thousand runde filter 597, 38 cm.  One thousand runde filter 597, 38 cm.  Five hundred runde filter 597, 38 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 597, 7 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 598, 12 cm.  One thousand runde filter 589, 7 cm.  Five hundred runde filter 589, 11 cm.  Two hundred runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.	19.75 45.00 50.00 85.50 8.70 16.75 22.00 13.40 15.75 3.80 29.00 71.00 47.50 12.80 25.00 15.25 20.00 24.00 14.50 6.40 8.80
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 596, 15 cm.  One thousand runde filter 596, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 596, 32 cm.  Five hundred runde filter 596, 38 cm.  One thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 7 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Ten thousand runde filter 597, 12 cm.  Tive thousand runde filter 597, 18 cm.  One thousand runde filter 597, 24 cm.  One thousand runde filter 597, 27 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 589, 12 cm.  Five hundred runde filter 589, 7 cm.  Five hundred runde filter 589, 12 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 74.00 47.50 18.90 25.00 15.25 20.00 38.00 24.00 14.50 6.40 8.80
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 38 cm.  Five hundred runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  The thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 22 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 598, 5½ cm.  One thousand runde filter 589, 12 cm.  Five hundred runde filter 589, 11 cm.  Two hundred runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 5½ cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 5½ cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 74.00 47.50 18.90 25.00 16.00 24.00 16.00 24.00 16.00 24.00 16.00 24.00 20.00
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 28 cm.  Five hundred runde filter 596, 38 cm.  Five hundred runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  The thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 15 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 27 cm.  Five hundred runde filter 597, 27 cm.  Five hundred runde filter 597, 38 cm.  One thousand runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 598, 12 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 11 cm.  Two hundred runde filter 589, 12 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.  One thousand runde filter 589, 9 cm.	19.75 45.00 50.00 85.50 8.70 16.75 22.00 13.40 15.75 3.80 29.00 71.00 47.50 12.80 25.00 16.00 24.00 14.50 6.40 8.80 18.90 20.00 30.00
Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 38 cm.  Five hundred runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  The thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 27 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 38 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 589, 12 cm.  Five hundred runde filter 589, 5 cm.  One thousand runde filter 589, 11 cm.  Two hundred runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 15 cm.  One thousand runde filter 589, 5  cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 29.00 71.00 74.00 47.50 18.90 25.00 16.00 24.00 16.00 24.00 16.00 24.00 16.00 24.00 20.00
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Ten thousand runde filter 595, 12 cm.  Ten thousand runde filter 595, 12 cm.  Five thousand runde filter 595, 15 cm.  One thousand runde filter 595, 18 cm.  One thousand runde filter 595, 24 cm.  One thousand runde filter 595, 27 cm.  Five hundred runde filter 595, 28 cm.  Five hundred runde filter 595, 28 cm.  Five hundred runde filter 597, 5 cm.  Two thousand runde filter 597, 5 cm.  Two thousand runde filter 597, 9 cm.  Ten thousand runde filter 597, 11 cm.  Ten thousand runde filter 597, 12 cm.  Five thousand runde filter 597, 18 cm.  One thousand runde filter 597, 18 cm.  One thousand runde filter 597, 22 cm.  Five hundred runde filter 597, 32 cm.  Five hundred runde filter 597, 50 cm.  One thousand runde filter 597, 50 cm.  One thousand runde filter 598, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 11 cm.  Two hundred runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 10 cm.  One thousand runde filter 589, 11 cm.  Two hundred runde filter 589, 12 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 12 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.  One thousand runde filter 589, 5 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 8.00 29.00 12.80 18.90 25.00 16.00 24.00 16.00 24.00 16.00 24.00 16.00 24.00 18.80 18.80 18.80 18.80 18.80 18.80 18.80 18.00
Ten thousand runde filter 595, 12½ cm.  Ten thousand runde filter 596, 15 cm. One thousand runde filter 595, 15 cm. One thousand runde filter 595, 24 cm. One thousand runde filter 595, 24 cm. One thousand runde filter 595, 27 cm. Five hundred runde filter 595, 32 cm. Five hundred runde filter 596, 38½ cm. One thousand runde filter 597, 5½ cm. Two thousand runde filter 597, 5½ cm. Two thousand runde filter 597, 7 cm. The thousand runde filter 597, 11 cm. Ten thousand runde filter 597, 12½ cm. The thousand runde filter 597, 15 cm. One thousand runde filter 597, 18 cm. One thousand runde filter 597, 24 cm. One thousand runde filter 597, 27 cm. Five hundred runde filter 597, 32 cm. Five hundred runde filter 597, 32 cm. Five hundred runde filter 597, 50 cm. One thousand runde filter 597, 50 cm. One thousand runde filter 597, 50 cm. One thousand runde filter 599, 7 cm. Five hundred runde filter 589, 12 cm. One thousand runde filter 589, 15 cm. One thousand runde filter 589, 7 cm. Five hundred runde filter 589, 12 cm. One thousand runde filter 589, 9 cm. One thousand runde filter 589, 9 cm. One thousand runde filter 589, 9 cm. One thousand runde filter 589, 9 cm. One thousand runde filter 589, 9 cm. One thousand runde filter 589, 9 cm. One thousand runde filter 589, 9 cm. One thousand runde filter 589, 12 cm. One thousand runde filter 589, 12 cm. One thousand runde filter 589, 12 cm. One thousand runde filter 589, 12 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm. One thousand runde filter 589, 10 cm.	19.75 45.00 50.00 85.50 8.70 15.75 22.00 13.40 15.75 3.80 8.00 29.00 12.60 15.25 20.00 15.25 20.00 16.00 14.50 18.00 14.50 18.00 20.00 30.00 30.00 18.00 4.850 4.850 4.850

Three hundred falsenfilser 588, 38½ cm.	
Two hundred falsenfilser 584, 24 cm.	8.00 12.00
Two hundred falsenfilser, 28 cm. Two hundred falsenfilser, 32 cm. One hundred falsenfilser, 384 cm.	15.60
One hundred falsenfilser, 38½ cm.	10.00
One hundred falsenfilser, 50 cm.	12.00
One hundred falsenfilser, 565 cm. One hundred falsenfilser, 50 cm. Three hundred felsvinpapier, 598. Five hundred felsvinpapier, 591. One thousand felsvinpapier, 58–58, I Two rollen felsvinpapier, 566. Two thousand bog. felsvinpapier, 58–58, II. One chlorenswichlungs and 1 lsr	54.00
In thousand felsylinespier, 691	75.00 67.50
Two rollen felsyinpapier, 566	25.00
Two thousand bog. felsyinpapier, 58-58, II	84.00
One chlorenswicklungs app., 1 lsr. Two joichser, m. kgl., 10 cm.	
Two joichser, m. kgl., 10 cm.	1.00
Two joichser, 12 cm.	1.20
Two joichser, 14 cm. Two joichser, 16 cm.	2.00 2.40
Two joichser, 18 cm.	3.20
Twenty-two joichser gerrips, 11 sorsen	8.40
Two joichser, 18 cm. Twenty-two joichser gerrips, 11 sorsen One messflachen, 100 One messflachen, 250	.90
One messflachen, 250	1.30
One messflachen, 500	1.80 2.30
One exsiccasor ohne Hahn	3.75
One exsicts or mit Hahn	6.00
One exsiccasor mit Hahn	8.50
Two filtrirkolben, 100 cc.	.60
Two filtrirkolben, 250 cc.	.80
Two filtrirkolben, 500 cc. Two filtrirkolben, 750 cc.	1.00 1.10
Two filtrirkolben, 1,000 cc.	1.20
Two filtrirkolben, 2,000 cc.	2.60
Two filtrirkolben, 200 cc.	1.40
Two filtrirkolben, 250 cc.	1.60
Two filtrirkolben, 500 cc.	1.80
Two filtrirkolben, 750 cc.	1.90 2.00
One vorlage m. 2 tub. 1 lsr.	2.00
One vorlage m. 2 tub, 2 lsr.	2.50
Two filtrirkolben, 700 cc. Two filtrirkolben, 1,000 cc. One vorlage m. 2 tub, 1 lsr. One vorlage m. 2 tub, 2 lsr. One vorlage m. 2 tub, 8 lsr.	3.50
One vorlage m. 2 tub, 5 lsr. One vorlage m. 2 tub, 5 lsr. One vorlage m. 2 tub, 5 lsr. One vorlage m. 2 tub, 1 lsr. One vorlage m. 2 tub, 1 lsr. One vorlage m. 2 tub, 2 lsr.	4.50
One workers m. 2 tub, ‡ 1sr	1.25 1.50
One vorlage m. 2 tub, † isr	2.00
One vorlage m. 2 tub. 2 lsr.	2.50
One vorlage m. 2 tub, ½ lsr. One vorlage m. 2 tub, ½ lsr. One vorlage m. 2 tub, ½ lsr.	1.50
One workers m. 2 tub, § Isr.	2.00 2.50
One vorlage m. 2 tub, 1 lsr.	3.60
One vorlage m. 2 tuh. 4 lsr.	4.50
Ten sasf. becherglaser, 1–5 yolg.  Five sasf. becherglaser, 1–8 yolg. One sasf. becherglaser, 1–10 yolg. One sasf. becherglaser, 1–12 yolg.	10.00
Five sasf. becherglaser, 1-8 yolg.	9.00
One sasf. becherglaser, 1–10 yolg.	3.00
One sast backgraper 1 16 wolg	4.00 7.00
One sasf. becherglaser, 1-12 yolg. One sasf. becherglaser, 1-16 yolg. Five sasf. becherglaser kaliglas, 1-8. Two sasf. becherglaser kaliglas, 1-10. One sasf. becherglaser kaliglas, 1-12. Five sasf. becherglaser hohe form, 1-8. One chlorentwicklungs apparas thon, 2 lsr. One chlorentwicklungs apparas thon, 4 lsr. One glaskassen, 130-105 mm. One glaskassen, 235-185 mm. One glaskassen, 315-235 mm.	14.00
Two sasf, becherglaser kaliglas, 1-10	10.00
One sasf. becherglaser kaliglas, 1-12	6.10
Five sasf. becherglaser hohe form, 1–8	20.2
One chlorentwicklungs apparas then, 4 ler	3.50 5.50
One chartesen 180-105 mm	1.10
One glaskassen, 235–185 mm.	2.5
One glaskassen, 210-155 mm	2.0
One glaskassen, 315–235 mm.	4.9
One glaskassen, 365-815 mm.	7.70
One glaskassen, 420–315 mm. One glaskassen, 50–25–25 cr.	
One glaskassen, 200-120-120	
One glaskassen, 800-200-150	10.50
One absorpsionsgefass, 15 cm.	.78
One absorpsionsgefass, 20 cm.	1.00
One absorpsionsgefass, 30 cm.	2.00 8.50
One araometer One satz normal araometer	50.0
	15.0

## ANNUAL REPORT OF THE

One half kg. aspess	W.9.00
Four burssen	1.00
One burssen	1.75
One burssen Four hundred glasperlen	1.00
Four nundred glasperien	2.00
One dialysasor	3.50
One gasentwicklungsapp One salz gervichse. One stocke mis glashahn Two gluhschilfchen, 0 Two gluhschilfchen, 1 Two gluhschilfchen, 2 Two gluhschilfchen, 3 Two gluhschilfchen, 4 One pracisionshahn Five queschhahne A, 4 cm. Five queschhahne A, 5 cm.	10.50
One salz gervichse	13.75
One stocke mis glashahn	7.50
Two glunschilichen, U	.70
Two glubschilfchen, 1	.50
Two gluhschilfchen, 2	.50
Two gluhschilfchen, 3	.50
Two gluhschilfchen, 4	.50
One pracisionshahn	10.00
Five queschhahne A, 4 cm.	1.10
Five queschhahne A, 5 cm.	1.25
Five queschhahne A, 6 cm.	1.50
Five queschhahne A, 7-5 cm	1.75
One queschhahne B. 4 cm.	.35
Five queschhahne A, 5 cm. Five queschhahne A, 6 cm. Five queschhahne A, 7-5 cm. One queschhahne B, 4 cm. Two queschhahne B, 5 cm.	.76
One queschbahne B. 6 cm.	.40
One queschbahne B. 74 cm.	.45
Five queschbahne C. 7-5	1.25
Two queschbuhne D	.90
Two queschhahne E	.90
Two queschbalne, E	1.30
Two queschhalms, C	.90
Two queschialme, u	.40
Two queschhahne B, 5 cm. One queschhahne B, 7½ cm. One queschhahne B, 7½ cm. Five queschhahne C, 7–5 Two queschhahne, E Two queschhahne, E Two queschhahne, F Two queschhahne, G Two queschhahne, H Two queschhahne, F One queschhahne, F One queschhahne, F One queschhahne K, 28 mm. One queschhahne K, 30 mm.	
1 wo queschiadine, F	.80
One queschiadne K, 28 mm.	.80
One queschhahne K, 30 mm. One queschhahne K, 35 mm.	.95
One queschianne K, 80 mm.	1.10
Two queschbahne L	1.50
One queschhahne F, 40 mm	.90
One queschhahne F, 45 mm.	1.00
Two queschhahne L One queschhahne F, 40 mm. One queschhahne F, 45 mm. One queschhahne K, 40 mm.	1.20
One queschnaune muencke	1.25
Ten halser	8.00
	1.00
One haiser Two rundkolben One sasy korkcohrer, 1-12 One korkprusse. Five flache drahlnesy kuppen Three flache drahlnesy kuppen One flache drahlnesy kuppen One loffel eisen m. spuselssiel, 12.5 cm. One loffel m. spuselssiel, 20 cm. One lupe m. 3 linsen One lupe; 38 mm. One lupe, 2 linsen Ten buressen gems	8.00
One sasy korkcohrer, 1-12	6.00
One korkprusse	2.00
Five flache drahlnesy kuppen	1.50
Three flache drahlnesy kuppen	1.50
One flache drahlness kunnen	1.00
One loffel eigen m. snuselssiel 12.5 cm	.60
One loffel m enuselesial 90 cm	.95
One lune m. 2 linean	3.00
One lune: 99 mm	4.00
One lupe, 55 mm.	4.50
The large, 2 in sen	
Ten buressen qems	2.50
One ripessenbrager One hundred gr. magnesium pulverform Five karkmesser Five glasmesser	4.50
One nundred gr. magnesium pulveriorm	15.00
Five Karkmesser	5.00
rive glasmesser	5.00
One scalpell klein	1.10
One scalpell klein One scalpell missel	1.25
One scalpell grass One scalpell sweischneidg One mesallsamlung. One achasmorser One glasmorser, 10 cm. One glasmorser, 16.5 cm.	1.40
One scalpell sweischneidg	1.50
One mesallsamlung	44.00
One achasmorser	24.00
One glasmorser, 10 cm.	1.00
One glasmorser, 16.5 cm.	1.85
One morser n. pory, No. 1	.50
One morser n. pory, No. 3	.90
One morser n. porv. No. 5	1.20
One morser n. porv. No. 7	1.75
One morser n. porv. No. 11	2.95
One morser glasiol, No. 00	.55
One glasmorser, 16.5 cm One morser n. pory, No. 1 One morser n. pory, No. 8 One morser n. pory, No. 5 One morser n. pory, No. 7 One morser n. pory, No. 7 One morser glasiol, No. 00 One morser glasiol, No. 0. One morser glasiol, No. 1. One morser glasiol, No. 3 One morser glasiol, No. 3 One morser glasiol, No. 5	.60
One morger glasiol No. 1	.75
One morser glasiol No. 3	1.20
One morser glasiol, No. 5.	1.65
One nincesse n nickel	2.25
One pincesse n. nickel	8.00

One pory plasseOne pory plasse, 8.5 cm.	M.0.35
One pory plasse, 8.5 cm.	.35
One pory plasse, 10 cm.	.35
Two pory plasse, 14 cm. One pory plasse, 20.3–14.5	1.00 3.00
One plasse, 20.0–14.0	2.00
One plasse	2.00
Two sammelgefasse	6.00
Five zangen n. mess vern	12.50
	4.50
Two kgl. pory tiegel ohne deckel, No. 000  Twenty kgl. pory tiegel ohne deckel, No. 00.  Twenty kgl. pory tiegel ohne deckel, No. 00.  Twenty kgl. pory tiegel ohne deckel, No. 0.  Twenty kgl. pory tiegel ohne deckel, No. 1.  Ten kgl. pory tiegel ohne deckel, No. 2.  Three kgl. pory tiegel ohne deckel, No. 3.  Two kgl. pory tiegel ohne deckel, No. 4  One kgl. pory tiegel ohne deckel, No. 5  Five shmelysiegel, No. 3.  Five shmelysiegel, No. 4	4.00
Ten kgl. pory tiegel ohne deckel, No. 000	1.20
Twenty kgl. pory tiegel onne deckel, No. W	5.00
Twenty kgl. pory tiegel office decker, No. 0.	7.00 8.00
Ten kel nory tiegel ohne deckel No. 2	6.00
Three kgl. porv tiegel ohne deckel. No. 3	2.40
Two kgl. pory tiegel ohne deckel, No. 4	1.70
One kgl. pory tiegel ohne deckel, No. 5	1.05
Five shmelysiegel, No. 3	1.75
Five shmelysiegel, No. 4	2.00
Five shmelyslegel, No. 5.	2.50
One shmelysiegel biscinigsony	.30 .35
One shmely sieger biscinigsony	.45
One shmelysiegel biscinlgsony	.55
One shmelysiegel hiscinlesony	.75
One shmelysiegel biscinlgsony	.80
One shmelysiegel biscinlgsony One untersalzschale glass, No. 2. Two untersalzschale glass, No. 1. Two untersalzschale glass, No. 0.	.30
Two untersalzschale glass, No. 1	.48
Two untersalzschale glass, No. 0.	.36
Une intersalzschale glass No. 2	.45
Two untersalzschale glass, No. 1. Two untersalzschale glass, No. 0.	.70
Three gets near him so where I	.60
Three satz pory kinge glasiol Four hundred gr. wrot rose metall	7.50 7.20
One coml fange	2.25
Five kg. zink arsenfric	8.75
Five kg. zink arsenfric One half kg. zink chem rein pulver. One half kg. zink chem rein ssaben	5.00
One half kg. zink chem rein ssaben	4.25
One kg. zink chem rein	8.50
One kg. zink chem rein One half kg. zink abs chem rein Ten kg. yesslifse abs	11.00
Ten kg. vesslifse abs	3.00
Three feilen, 6 cm	$\frac{1.50}{2.25}$
Two feilen, 10 cm.	1.80
Two feilen, 16 cm.	2.40
Three feilen, 6 cm.	.90
Two feilen, 10 cm.	.80
Four feilen, 16 cm.	2.40
One feilen, 20 cm.	1.00
Two feilen, 8 cm.	.80
Two feilen, 10 cm.	1.00
One feilen, 12 cm. Four feilen, 12 cm.	.50 2.00
One feilen 18 cm	.70
One feilen, 16 cm. Ninety glasplassen, 100 mm. in 6 furbins	31.50
Three glasplassen, 200 mm, rosh	3.60
Three glasplassen, 200 mm. rosh Two glasplassen, 200 mm. orange	2.40
One glasplassen, 200 mm. gelc Two kohren kalumm nasimum	1.20
Two kohren kalumm nasimum	.35
Four absorpsions rohren, 10 cm.	6.00
Three absorpsions rohren, 15 cm. Two absorpsions rohren, 20 cm.	7.50
One absorpsions rohren, mit furt	6.00 5.00
One absorpsions rohren m. hahnssospen	4.50
One absorpsionsgefais	3.50
One absorpsionsgefais	3.00
One kl. absorpsions schlange	1.25
One destellasions rohr	4.00
One destellasions rohr	5.00
One extractions apparat, 250 cc.	3.20
One extractions apparat, 1,000 cc.	5.00
One filtrirechm, A	.40 .40
One filtrirsohm, B. One gaswaschflasch.	1.50
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## ANNUAL REPORT OF THE

One dreirveyhahnOne heber, 50 cm.	M.2.75
One heber, by cm.	1.50
Three kohelensaure apparuse	6.00 4.00
One kohelensaure apparuseOne kohelensaure apparuse	2.00
One kohelensaure apparuse	5.00
Two kohelensaure apparuse	2.50
One kohelensaure apparuse	6.00
One kohelensaure apparuse	6.00
Five kolben cirnformig	1.75
Five kolben cirnformig Three kolben cirnformig	1.20
Two kolben cirnformig.	1.00
Two kolben cirnformig	1.40
Two kolben cirnformig. Two kolben cirnformig. Two appacase One pyknometer Two pyknometers One reagenskelch One reagenskelch	2.90
One pyknometer	2.50
One nyknometer	3.00 1.75
One regeneralch	.25
One reagenskelch	.30
One reagenskelchOne reagenskelch	.35
One reagenskelch	.40
One reagenskelch	.55
One reagenskelchOne reagenskelch	.75
Two reagenskelch	.70
Three reagenskelch	1.65
Three reagenskelch One reagenskelch	.50
One reagenskeich	.60
One reagenskelch	.75
Two reagenskelch	1.80
One reagenskelch	.30
One reagenskelch	.35 .40
One reagenskelchOne reagenskelch	.40
One reagenskelch	.90
One spiritzflaschen, 500 cc.	4.00
One spiritzflaschen, 750 cc.	4.25
Two spiritzflaschen, 750 cc.	4.50
Two spiritzflaschen, 500 cc.	4.00
One reagenskelch One spiritzflaschen, 500 cc. One spiritzflaschen, 750 cc. Two spiritzflaschen, 750 cc. Two spiritzflaschen, 500 cc. One chem. thermometer	2.50
One chem. mermonicier	3.00
One chem. thermometer	3.50
One chem. thermometer	5.00
One med. thermometer	2.75
One verschluptrichser One verschluptrichser One scheidetrichser	1.75
One scholdstriches	2.50 2.25
One scheidetrichser	3.00
One scheidetrichser	4.00
One scheidetrichser Three vorstosse grade	1.50
Two vorstosse grade	1.20
Two vorstosse geb	.90
Two vorstosse geb	1.00
One wageglaschen	.65
One wageglaschen	1.00
One wageglaschen	.60
One wageglaschen	.70
One wageglaschen	.90
One wageglaschen flach	.50 .60
One wageglaschen flach One wageglaschen	.30
One wageglaschen	.45
One wageglaschen	.60
One wageglaschen One wageglaschen	.45
One wageglaschen	.50
One wageglaschen	.60
One vegetationskasten	220.00
One dampsfrylinder, etc.	120.00
One kpfr kalen doppel wandig, etc.	92.50
One kronenbrenner	10.00
One half kg. glaskoner One filtrirstatir	$\frac{1.50}{2.50}$
One kg. schlauct.	25.00 25.00
One kg. schlauct	17.50
One gaslampe	5.25
One gaslampe	2.10
0	4.00

One burettetry, etc	M.16.25
One vacuumétérOne reagerglas gestell	17.50
One reagergias gestell	1.10 2.60
One reagerglas gestell One hundred springkohlen One kg. kl. glasperlen	2.00 8.00
One kg. kl. glasperlen	4.50
One filtrirstatir, etc.	4.00
One filtrirstatir, etc. One geblaselanpe	2.50
One geblaselanpe	12.00
One kuhler statir	4.00
One holz kuhler statirOne burssensreager, etc	5.00 15.00
Two burssensreager, etc.	16.50
One burssensreager, etc.	9.25
One burssensreager, etcOne burssensreager, etc	10.00
Two universalhulter	10.00
One stateo slas roh lack.	1.10
One states slas roh lack	1.35 1.80
One stateo slas roh lackOne stateo slas roh lack	2.50
One stateo slas roh lack	4.30
One stateo slas roh lack	.90
One stateo slas roh lack	1.00
One stateo slas roh lack	1.10
One stateo slas roh lack	1.20
One stateo slas roh lackOne stateo slas roh lack	1.60 2.75
One stateo slas roh lack.	3.90
One stateo slas roh lack	7.80
One stateo slas roh lack	2.50
One stateo slas roh lack	2.90
One stateo slas roh lack	3.40
One kl. mess gabel	1.25 1.50
One gr. mess gabel	3.00
Two gr. mess gabel One yederrede klemme	2.00
One yederrede klemme	2.50
One doppelklemme	5.75
One voltameter	20.00
Three stative, etc.	15.00
Three stative, etc. One waudtapel, aufgezogen, No. 1. One waudtapel, aufgezogen, No. 2. One waudtapel, aufgezogen, No. 3. One waudtapel, aufgezogen, No. 4. One waudtapel, aufgezogen, No. 5. One waudtapel, aufgezogen, No. 6. One waudtapel, aufgezogen, No. 6. One waudtapel, aufgezogen, No. 6.	12.50 $12.50$
One wandtanel antregoren No. 8	12.50
One waudtapel, aufgezogen, No. 4	12.50
One waudtapel, aufgezogen, No. 5	12.50
One waudtapel, aufgezogen, No. 6	12.50
One waudtapel, aufgezogen, No. 6. One waudtapel, aufgezogen, No. 8. One waudtapel, aufgezogen, No. 8. One waudtapel, aufgezogen, No. 9. One waudtapel, aufgezogen, No. 10. One waudtapel, aufgezogen, No. 11. One waudtapel, aufgezogen, No. 12. One regulator	12.50
One wandtapel, aufgezogen, No. 8	12.50 $12.50$
One wandtapel, augezogen, No. 9	12.50
One wandtanel aufgezogen, No. 11	12.50
One waudtapel, aufgezogen, No. 12	12.50
One regulator	6.50
One schreibdiamant One extractions apparat	3.00
Une extractions apparat	5.50 2.50
Two kuhler, 25 cm Two kuhler, 40 cm	3.50
One kuhler, 60 cm.	2.50
One kuhlenneret etc	7.50
Two platinspisyen One burette, form D	6.00
One burette, form D	6.00
One burette, form F	6.75 <b>4</b> .75
One burette, form N	3.75
One burette	6.50
Ten burrette n. chroiminer	7.50
Ten burrette n. decken	1.50
One manometer, etc.	6.75
Twenty-three gr. platinfolie	69.00 5.00
Ten platinschramm One vanne n. mess rohmen	
One geblase, No. 1	17.50
One geblase, No. 1One geblase, No. 3	44.00
One thermometer	3.00
One thermometer	8.50

One thermoregulator	М.9.00
One thermoregulator One stative kaliapparus One kolben n. gusscisen One rapidkocher One rapidkocher Ten gaslampen One gaslampen One gaslampen	6.50
One kolden in gusscisen	7.50 4.50
One renidencher	9.50
Ten gaslampen	16.00
One gaslampen	2.90
	2.50
Two gaslampen	5.00
Two gaslampen	6.00
Two gaslampen Two gaslampen One gaslampen One gaslampen	2.25
One gaslampen	2.75
Five aupsasye One Meuncke lampe	1.25 4.50
One nickel loppel	1.10
One kohlangaga	1.25
One kohlensage Two porose thonplatten, 9 cm. Two porose thonplatten, 12 cm.	.30
Two porose thomplatten, 12 cm.	.60
Two porose thonplatten, 20 cm. One porose thonplatten, 25 cm. One porose thonplatten, 30 cm. One porose thonplatten, 35 cm. One porose thonplatten, 40 cm. One half kg. staniol One klemme, K. One klemme, M. One klemme, M.	1.50
One porose thonplatten, 25 cm.	1.10
One porose thonplatten, 30 cm	1.50
One porose thonplatten, 35 cm.	3.00
One porose thonplatten, 40 cm.	4.50
One half kg. staniol	3.00
One klemme, K.	2.50
One klemme, M	3.00
	4.75
One blomme O	3.50 4.50
One klemme, P. One klemme, Q. One klemme, R. One klemme, U.	5.00
One klemme II	3.25
One klemme D	2.75
One klemme, D. One klemme, H.	2.75
Une tedermde klemme klein	2.00
One federmde klemme klein	2.75
One federmde klemme klein One doppelklemme	5.00
One doppelklemme	5.75
Seven doppelmutfen, 1,117	6.30
One doppelklemme Seven doppelmutfen, 1,117 Fourteen doppelmutfen One wasserstrahllufspumpe, No. 8 One wasserstrahllufspumpe One wasserstrahllufspumpe One exsiccasor Two filtrightleen	14.00
One wasserstrahllufspumpe, No. 8	2.75
One wasserstraniluspumpe	3.25
One wasserstrannurspume	8.50 6.50
Two filminkalban	1.80
Two filtrirkolben One kolbentrager, 15 cm.	2.50
One kolbentrager, 25 cm.	3.25
One kolbentrager, 40 cm.	4.80
One kolbentrager, 50 cm.	5.50
One kolbentrager, 40 cm. One kolbentrager, 50 cm. One kolbentrager, m. holzletter, 12 cm.	2.75
One kolbentrager, m. holzletter, 17 cm. One kolbentrager, m. holzletter, 20 cm. One microlampe One luftpunpenletter One luftpunpenletter One kreufschulung, 10-8.	3.75
One kolbentrager, m. holzletter, 20 cm.	4.25
One microlampe	3.20
One luftpunpenletter	32.00
One lumpunpenietter	27.00 1.25
One kroufschulung 10 10	1.30
One kreufschulung, 10-10 One kreufschulung, 10-8 One kreufschulung, 10-10	1.40
One kreufschulung, 10–10	1.50
Five universalhalzer	24.75
Five universalhalzer One landbad, 40-20 cm.	15.00
One klemme, A	1.75
One klemme, B	1.60
One klemme, C	1.60
One klemme, I	2.25
One klemme, K	4.50
One klemme, L	2.75
One salz mess ringe	3.50 3.50
One salz mess ringe	6.50
Five salz eis ringe	4.00
Ten salz eis ringe	14.00
One salz mess ringe	2.20
One salz mess ringe	2.55
One salz mess ringe.	3.20
One salz eis ringe.	1.80
Almo Hagahan namer 105 aa	1 05

## SECRETARY TO THE BOARD OF REGENTS.

One flagshop news 950 as	37 1 00	
One maschen pory, 200 cc.	M.1.20	
One flaschen pory, 250 cc. One flaschen pory, 500 cc. One flaschen pory, 750 cc. One flaschen pory, 1,000 cc. One flaschen pory, 1,500 cc. One vortage m. 2 tub One vortage m. 2 tub One vortage m. 2 tub One vortage m. 2 tub One vortage m. 2 tub One vortage m. 2 tub	1.50	
One flaschen pory, 750 cc.	1.80	
One flaschen pory, 1,000 cc.	2.25	
One flaschen porv. 1.500 cc.	3.00	
One vortage m 2 tub	70	
One traverse m 2 tub		
One would be m. 2 tub	1.00	
One vortage in 2 tub	1.20	
One vortage m. 2 tub	1.50	
One vortage m. 2 tub One vortage m. 2 tub Fifty kjeldahl kolben Twenty kjeldahl kolben One burette	2.50	
One vortage m. 2 tub	3.00	
Fifty kieldahl kolhen	15.00	
Twenty kieldehl kelhan	10.00	
On a house	10.00	
One purette	6.50	
One burettentrager	18.75	
One reagensgistell	1.50	
One burettentrager One reagensgistell One graunnflasche Five zangen n. messg vermickell Two mess gabeln Five paar wageschalchen One wasserstrahllufspumpe, No. 12 One wasserstrahllufspumpe, No. 7 One geblase n. glas One regulator One normal spermometer One kupferkolben One salz korkbohrer, 1-6 One Muencke lampe One Hirschroald lampe One burettentrager	4.50	
Pivo gangan n masag parmiakali	12.50	
The Zangen is itess vermicken	12.00	
Two mess gabein	3.00	
Five paar wageschalchen	6.00	
One wasserstrahllufspumpe, No. 12.	33.00	
One wasserstrahllufspumpe, No. 7	16.50	
One moblese n. gles	70.00	
One geometric in glas	10.00	
One regulator	9.50	
One normal spermometer	10.00	
One kupferkolben	12.00	
One salz korkbohrer 1-6	3.50	
One Muencke lemne	6.00	
One Interest in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	0.00	
One Hirschroald lampe One burettentrager Two pipettenflaschen Two kohrentrager One klemme, I. One klemme, I. One doppelklemme One doppelklemme Two doppelklemme Two doppelklemme Three salz eis ringe	7.50	
One burettentrager	14.50	
Two pipettenflaschen	6.00	
Two kohrentrager	8.00	
One klamma I.	2.75	
One klemme, M	4.00	
One kiemine, N	4.00	
One doppelklemme	5.00	
One doppelklemme	4.50	
Two doppelklemme	9.00	
Throa salz ais rings	6.30	
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Five saiz eis ringe	9.00	
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0110 1411 010 116110 1111111111111111111	2.20	
Five salz eis ringe	9.00	
Five salz els ringe One voltameter	9.00 10.00	
Five salz eis ringe. One voltameter.	9.00 10.00 28.45	
Five salz eis ringe One salz eis ringe One salz eis ringe One voltameter One universalstatio	9.00 10.00 28.45	
Five salz eis ringe One voltameter One universalstatio One federnde klemme gross	9.00 10.00 28.45 2.50	
Five salz eis ringe	9.00 10.00 28.45 2.50 3.25	
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One federade klemme gross	3.25 225.25	
One federade klemme gross	3.25 225.25	<b>\$1.038</b> 59
One federade klemme gross	3.25 225.25	\$1,038 59 28 00
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 20 00
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00 4 32
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00 4 32 75
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00 4 82 75 8 18
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 90 4 82 75 8 16
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 90 4 82 75 8 16 10 00
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00 4 82 75 8 16 10 00 25 00
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00 4 82 7 8 16 10 00 25 00 6 50
One federade klemme gross	3.25 225.25	\$1,038 59 28 00 30 00 4 06 15 90 4 32 75 8 16 10 00 25 00 6 50
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00 4 32 8 16 10 00 25 00 6 50 5 00 21 25
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 50 4 82 75 8 16 10 00 25 00 6 50 21 27
One federade klemme gross	3.25 225.25	\$1,038 59 26 00 30 00 4 06 15 00 4 32 75 8 16 10 00 25 00 6 50 5 00 21 26 2 70
One federnde klemme gross  Packing, etc.  Ten thousand four hundred cubic feet gas—Oakland Gas Co.  Platinum wire foil—Justinian Caire  Nine and one half feet wire cloth—Justinian Caire  Sixty gallons coal oil—Justinian Caire  Three dozen glass funnels—Justinian Caire  Three watch glasses—Justinian Caire  Three watch glasses—Justinian Caire  Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co.  Postage stamps—N. B. Byrne  Expressage—Patterson & Co.  Fifteen pounds acetic acid—J. Caire  Five pounds red lead—J. Caire	4,282.83 	\$1,038 59 28 00 30 00 4 06 15 00 4 82 75 8 16 10 00 25 00 6 50 6 50 21 25 2 70
One federnde klemme gross  Packing, etc.  Ten thousand four hundred cubic feet gas—Oakland Gas Co.  Platinum wire foil—Justinian Caire  Nine and one half feet wire cloth—Justinian Caire  Sixty gallons coal oil—Justinian Caire  Three dozen glass funnels—Justinian Caire  Three watch glasses—Justinian Caire  Three watch glasses—Justinian Caire  Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co.  Postage stamps—N. B. Byrne  Expressage—Patterson & Co.  Fifteen pounds acetic acid—J. Caire  Five pounds red lead—J. Caire	4,282.83 	\$1,038 59 28 00 30 00 4 08 15 90 4 82 75 8 16 10 00 25 00 6 50 5 00 21 25 2 70 1 25
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One federnde klemme gross Packing, etc.  M. Ten thousand four hundred cubic feet gas—Oakland Gas Co. Platinum wire foil—Justinian Caire Nine and one half feet wire cloth—Justinian Caire Sixty gallons coal oil—Justinian Caire Three dozen glass funnels—Justinian Caire Three watch glasses—Justinian Caire Three watch glasses—Justinian Caire Four dozen porcelain crucibles—Justinian Caire Ten thousand cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Postage stamps—N. B. Byrne Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Blank books—J. Caire Two sieves—J. Caire Two pairs tongs—J. Caire Two pairs tongs—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co.	4,282.83 	3 00 2 40 35 90 2 00 9 50 8 91 9 95 48 25 8 50

One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Frieghtage—Southern Pacific Co. Five gallons bisulphide of carbon—John H. Wheeler	
Expressage—Patterson & Co.	
Ten thousand five hundred cubic feet gas—Oakland Gas Co.	•••••
Freightage—Southern Pacific Co	
Five gallons bisulphide of carbon—John H. Wheeler	
Expressage—Patterson & Co.  Ten thousand eight hundred cubic feet gas—Oakland Gas Co.  Expressage—Wells, Fargo & Co.  Bill of Eimer & Amend:	
Expression—Wells Feron & Co	
Bill of Rimer & Amend:	
Three dozen desiccators	<b>\$16 50</b>
Fixtures for same	3 80
Packing	75
Dill of Decre Cabilling in market todal in dellars and contain	Marks.
Bill of Franz Schilling, in marks; total in dollars and cents: One hundred stp. kolben ohne tubno, 1,000 gr.	36.00
One kiste embellage	9.50
One kiste embellage Fifty st. kolben ohne tubno, 750 gr. Sixty-five st. kolben ohne tubno, 500 gr.	16.00
Sixty-five st. kolben ohne tubno, 500 gr.	14.30
One kiste embellage Seven st. kochflaschen, 8,000 qr. Seven st. kochflaschen, 6,000 qr.	8.00
Seven st. kochflaschen, 8,000 qr.	14.00
Flower at bookflosehen 2 000 or	12.25 5.28
Eleven st. kochflaschen, 2,000 qr.	9.50
One kiste embellage One hundred st. kochflaschen, 500 qr.	18.00
One hundred st. kochflaschen, 200 qr.	9.00
One kiste embellage	7.50
Thirty-four st. kochflaschen, 200 qr. One hundred and twenty-five st. kochflaschen, 200 qr.	16.32
One hundred and twenty-five st. kochflaschen, 200 qr.	11.25
One kiste embellage Fifty st. kochflaschen, 1,000 qr. Sixty st. kochflaschen, 750 qr.	8.00 12.50
Sixty st. kochflaschen, 750 gr.	18.20
One kiste embellage	8.00
One kiste embellage	8.80
Two hundred and ten st. kochflaschen, 250 qr.	21.00
One hundred st. kochflaschen, 30 gr.	5.00
One kiste embellage	8.00 21.60
Thirty-six st. kolben ohne tubno, 2,000 qr. One hundred and twenty st. kolben ohne tubno, 60 qr.	10.80
One kiste embellage	7.00
Sixteen st. kolben ohne tubno. 2.000 gr.	9.60
Twenty st. kolben ohne tubno, 4,000 qr. One kiste embellage	18.00
One kiste embellage	8.00
Two st. kolben ohne tubno, 4,000 qr.	1.80 6.00
Two st. kolben ohne tubno, 10,000 qr.  Five st. kolben ohne tubno, 8,000 qr.  Thirteen st. kolben ohne tubno, 600 qr.  One hundred st. kolben ohne tubno, 60 qr.	11.00
Thirteen st. kolben ohne tubno. 600 gr.	24.05
One hundred st. kolben ohne tubno, 60 qr.	9.00
One kiste embellage	10.50
Twenty-five st. woulfsche flaschen m. 3 U, 150 qr.	10.52
Thirteen st. woulfsche flaschen m. 3 U, 200 qr.  Thirteen st. woulfsche flaschen m. 3 U, 200 qr.  Thirteen st. woulfsche flaschen m. 3 U, 250 qr.	5.85 6.50
Thirteen st. woulfsche flaschen m. 3 U, 200 qr. Twelve st. woulfsche flaschen m. 3 U, 750 qr. Twelve st. woulfsche flaschen m. 3 U, 750 qr. Six st. woulfsche flaschen m. 3 U, 1,000 qr. Four st. woulfsche flaschen m. 2 U, 2000 qr. Three st. woulfsche flaschen m. 2 U, 200 qr. Two st. woulfsche flaschen m. 2 U, 250 qr. Four st. woulfsche flaschen m. 2 U, 750 qr. Three st. woulfsche flaschen m. 2 U, 750 qr. Three st. woulfsche flaschen m. 2 U, 1,000 qr. One kyste embellage	6.50 8.40
Twelve st. wouldsche flaschen m. 3 U. 750 gr.	9.60
Six st. woulfsche flaschen m. 3 U. 1,000 gr.	5.40
Four st. woulfsche flaschen m. 3 U, 2,000 qr	6.80
Three st. woulfsche flaschen m. 2 U, 200 qr.	1.20
Two st. wouldsche flaschen m. 2 U, 250 qr.	.90
Four st. Wouldsche flaschen m. 2 U, 500 qr.	2.40 2.80
Three st. wouldsche flaschen m. 2 H. 1.000 gr.	2.40
One kiste embellage	7.00
Ten st. kochflaschen, 5,000 qr.	15.00
Five st. kochflaschen, 6,000 qr.	8.75
Eleven st. kochflaschen, 4,000 qr.	9.24
Fifteen st. kolben ohne tubno, 500 qr.	3.30
Tan at kochflaschan 4000 ar	10.50 8.40
One kiste embellage Ten st. kochflaschen, 4,000 qr. Thirty-five st. kolben ohne tubno, 500 qr. Siyty st. kolben ohne tubno, 500 qr.	7.70
Sixty st. kolben ohne tubno, 250 qr.	9.60
One kiste embellage	8.00
One kiste embellage Five st. gascutebindugsflaschen, 100 qr.	2.25
Eleven st. gascutbindungsflaschen, 750 qr. One hundred and four st. gascutbindungsflaschen, 250 qr.	4.40
Une nundred and four st. gascutbindungsflaschen, 200 qr	20.80 12.00
Forty st. gascutbindungsflaschen, 500 qr One kiste embellage	8.00
OTO TOPIC AMPANIABA	5.00

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Five st. kochflaschen, 10 000 or.	M.15.00
Five st. kochflaschen, 10,000 qr.  Three st. kochflaschen, 8,000 qr.  One kiste embellage  Three st. kochflaschen, 8,000 qr.  Two hundred st. kolben ohne tubno, 200 qr.  One kiste embellage	8 80
One bists ambelled	0.00
One kiste embenage	٥.00
Three st. kochnaschen, 8,000 qr.	6.60
Two hundred st. kolben ohne tubno, 200 qr	24.00
One kiste embellage Forty-five and one half ko. glasrohren, 4-16 m. d'cm.	8.50
Forty-five and one half ko. glasrohren 4-16 m. d'cm.	45.50
Seven ko. glasrohren, 21-23 m. d'cm.	8.40
Deven Ro. glasionien, 21–20 m. u cm.	
One kiste embellage One hundred and fifty st. kolben ohne tubno, 250 qr.	3.00
One hundred and fifty st. kolben ohne tubno, 250 qr	24.00
Two hundred st. kolben ohne tubno, 100 qr	20.00
One kiste embellage	8.50
Fourteen st retorten mit stansel 2000 gr	11.20
Ninoton at notouton mit stongol 1 000 gr	10.45
Nineteen st. retorten mit stopsei, 1,000 qr.	10.45
Two hundred st. kolben onne tubno, 100 qr. One kiste embellage Fourteen st. retorten mit stopsel, 2,000 qr. Nineteen st. retorten mit stopsel, 1,000 qr. One kiste embellage Forty-three st. retorten mit stopsel, 750 qr. One st. retorten mit stopsel, 1,000 qr. One kiste embellage One hundred and sixty salze becherglaser n. 1–5 One kiste embellage	8.50
Forty-three st. retorten mit stopsel, 750 qr	30.10
One st. retorten mit stopsel. 1.000 gr.	.55
One kiste embellage	8.00
One hundred and sixty selse hechardeger n 1 5	190.00
One number and sixty saize bechergiaser ii. 1-0	120.00
One kiste embellage	
Six salze becherglaser n. 1–16	28.50
One kiste embellage Six salze becherglaser n. 1-16. Twenty salze becherglaser n. 1-12.	60 AA
One kiste embellage	7.00
Twonty six oincoly sixthan	11.60
I WOULD THE CHISCIANGUICH	100.00
One kiste embellage Twenty-six einselzkistchen. Fifty salze becherglaser n. 1-10 Fifty einselzkisten. One kiste embellage Fifty-five st. retorten mit stopsel, 1,000 qr.	100.00
Fifty einselzkisten	17.50
One kiste embellage	8.00
Fifty-five st. retorten mit stopsel, 1.000 or.	20.90
One kiste embellage	8.00
One kiste embellage One hundred and ten st. retorten mit stopsel, 250 qr.	99.00
One nundred and ten st. retorten mit stopsel, 200 qr	33.00
	8.00
Thirty ko. cylinderrohren n. 12–16. Six st. sicherheitsrohren m. 4 kugeln, No. 586	30.00
Six st. sicherheitsrohren m. 4 kugeln. No. 586	2.10
Thirteen st. sicherheitsrohren m. 2 kugeln, No. 586	2.60
Simple side of heiters have men 1 handle No 500	
Six st. sicherheitsrohren m. 1 kugeln, No. 586	1.08
One kiste embellage	5. <b>0</b> 0
One hundred salze becherglaser n. 1–5	1.50
One kiste embellage	6.00
One kiste embellage One hundred salze becherglaser n. 1–5 One kiste embellage. Twenty-one st. praparatenglaser m. rand One hundred and seventy-six st. praparatenglaser m. rand.	8.40
One hundred and correcting and thronounterpolagon mond	44.00
One huntered all seventy-six st. praparatengiaser in rand	44.00
One kiste embeliage	7.00
One kiste embellage  Four st. retorten mit stopsel, 5,000 qr.  Three st. retorten mit stopsel, 4,000 qr.  Seventy-five retorten mit stopsel, 200 qr.  One kiste embellage  Sixty-five st. retorten mit stopsel, 500 qr.  One kiste embellage  Thirty st. reagirkelctn mit ausguss, 25 cm. f.  Twenty-one st. reagirkelctn. 15 cm. hoch	7.20
Three st. retorten mit stopsel, 4,000 gr.	4.50
Seventy-five retorten mit stopsel, 200 gr.	20.25
One riste embellare	9.50
Cite Answer Children and Assessment 500 cm	04.70
Sixty-five st. retorted mit stopset, 500 qr.	24.70
One kiste embeliage	9.00
Thirty st. reagirkeletn mit ausguss, 25 cm. f	10.50
Twenty-one st. reagirkeletn. 15 cm. hoch	5.25
Twenty-five st reagirkeletn 15 cm hoch	5.00
Twenty six at magintalata 10 am hash	4 10
Thirty st. reagirkeletn mit ausguss, 20 cm. f. Twenty-one st. reagirkeletn, 15 cm. hoch Twenty-five st. reagirkeletn, 15 cm. hoch Twenty-six st. reagirkeletn, 10 cm. hoch Sixty st. kochflaschen, 100 qr. One kiste embellage Forty-two st. retorten mit stopsel, 750 qr. One kiste embellage	4.16
Diaty St. Auchingschen, two qr.	3.60
One kiste embeliage	7.00
Forty-two st. retorten mit stopsel, 750 qr.	29.40
One kiste embellage	8.00
One kiste embellage Twenty-five st. retorten mit stopsel, 750 qr. Forty st. retorten mit stopsel, 100 qr. One kiste embellage	17.50
Two tract act act and a standard 100 and 100 a	0.00
Porty St. Tetorten int Swpset, 100 qr.	8.00
One kiste embellage	8.00
Forty st. retorten mit stopsel, 250 qr.	12.00
Twenty-two st. retorten mit stopsel, 60 gr.	3.96
Fifty st. retorten mit stonsel 200 ar	13.50
Thirty et bochflaschen 100 ar	1.80
One biote embellage	1.00
One kiste empenage	8.00
Inirty st. retorten mit stopsel, 10,000 qr.	3.75
Six st. retorten mit stopsel, 6,000 qr.	13.20
Forty st. retorten mit stopsel, 100 qr. One kiste embellage Forty st. retorten mit stopsel, 250 qr. Twenty-two st. retorten mit stopsel, 60 qr. Fifty st. retorten mit stopsel, 200 qr. Thirty st. kochflaschen, 100 qr. One kiste embellage Thirty st. retorten mit stopsel, 10,000 qr. Six st. retorten mit stopsel, 6,000 qr. Twenty st. retorten mit stopsel, 750 qr. One kiste embellage	14.00
One kiste embellage	9.50
One hundred at reagingleser 5 cm lang 6 mm d'am	75
One handred of received one 5 cm land 10 mm dies	.75
one nundred st. reagirgiaser, o cm. lang to mm. d.cm.	1.00
one nundred st. reagirglaser, 5 cm. lang 13 mm. d'cm.	1.20
One hundred st. reagirglaser, 5 cm. lang 6 mm. d'cm.  One hundred st. reagirglaser, 5 cm. lang 10 mm. d'cm.  One hundred st. reagirglaser, 5 cm. lang 13 mm. d'cm.  One hundred st. reagirglaser, 5 cm. lang 16 mm. d'cm.	1.40
One hundred st. reaginglaser, 5 cm, lang 20 mm, d'cm.	1.50
One hundred st. reagirglaser, 5 cm. lang 20 mm. d'cm. One hundred st. reagirglaser, 8 cm. lang 6 mm. d'cm. One hundred st. reagirglaser, 8 cm. lang 10 mm. d'cm.	1.00
One hundred of reagingleser 8 cm lang 10 mm d'em	1.20
one numered st. reaginglaser, o cm. lang to min. a cm	1.20

One hundred st. reagirglaser, 8 cm. lang 13 mm. d'cm.	M.1.30
One hundred st. reagirglaser, 8 cm. lang 16 mm. d'cm.	1.50
One hundred st. reagirglaser, 8 cm. lang 18 mm. d'cm. One hundred st. reagirglaser, 8 cm. lang 16 mm. d'cm. One hundred st. reagirglaser, 8 cm. lang 20 mm. d'cm. Two hundred st. reagirglaser, 10 cm. lang 11 mm. d'cm. Two hundred st. reagirglaser, 10 cm. lang 13 mm. d'cm. Two hundred st. reagirglaser, 10 cm. lang 16 mm. d'cm. Two hundred st. reagirglaser, 10 cm. lang 20 mm. d'cm. Two hundred st. reagirglaser, 10 cm. lang 20 mm. d'cm. Two hundred st. reagirglaser, 12 cm. lang 10 mm. d'cm. Two hundred st. reagirglaser, 12 cm. lang 10 mm. d'cm. Two hundred st. reagirglaser, 12 cm. lang 18 mm. d'cm. Two hundred st. reagirglaser, 12 cm. lang 16 mm. d'cm. Two hundred st. reagirglaser, 12 cm. lang 16 mm. d'cm. Two hundred st. reagirglaser, 12 cm. lang 18 mm. d'cm. Two hundred st. reagirglaser, 15 cm. lang 18 mm. d'cm. One kiste embellage	1.70
Two hundred st. reaginglaser, 10 cm. lang 11 mm. d cm	2.60 3.20
Two hundred st reaginglaser, 10 cm. lang 10 mm, d cm.	4.00
Two hundred st. reaginglaser, 10 cm. lang 20 mm, d'cm.	5.00
Two hundred st. reaginglaser, 10 cm. lang 26 mm. d'cm.	6.00
Two hundred st. reaginglaser, 12 cm. lang 10 mm. d'cm.	3.60
Two hundred st. reaginglaser, 12 cm. lang 13 mm. d'cm	4.00
Two hundred st. reagirglaser, 12 cm. lang 16 mm. d'cm	4.40
Two hundred st. reagirglaser, 12 cm. lang 20 mm. d'cm.	<b>6.0</b> 0
Two hundred st. reagirglaser, 15 cm. lang 13 mm. d'cm.	4.40
One kiste embellage Four einselzkisten Three st. retorten mit stopsel, 10,000 qr. Three st. retorten mit stopsel, 8,000 qr. Twenty-one st. retorten mit stopsel, 750 qr.	6.00
Four einselzkisten	6.00
Three st. retorten mit stopsel, 10,000 qr.	11.25
Three st. retorten mit stopsel, 0,000 qr.	9.60 14.70
One biste embellage	9.50
One kiste embellage One hundred st. reagirglaser, 15 cm. lang 26 mm. d'cm. Sixty-four st. reagirglaser, 15 cm. lang 33 mm. d'cm. Two hundred st. reagirglaser, 15 cm. lang 20 mm. d'cm.	3.90
Sixty-four st respirates 15 cm lang 20 mm. d'em	2.80
Two hundred st. respirals ser. 15 cm. lang 20 mm. d'cm.	6.20
Four hundred st. reagirglaser, 15 cm. lang 16 mm. d'cm. One hundred st. reagirglaser, 20 cm. lang 33 mm. d'cm. One hundred st. reagirglaser, 20 cm. lang 26 mm. d'cm.	10.80
One hundred st. reaginglaser, 20 cm. lang 33 mm. d'cm.	6.00
One hundred st. reaginglaser, 20 cm. lang 26 mm. d'cm.	5.00
Two hundred st. reagirglaser, 12 cm. lang 26 mm. d'cm.	7.00
Two hundred st. reagirglaser, 12 cm. lang 26 mm. d'cm.  Twenty-five st. reagirglaser, 25 cm. lang 35 mm. d'cm.  Twenty-five st. reagirglaser, 30 cm. lang 30 mm. d'cm.	2.25
Twenty-five st. reagirglaser, 30 cm. lang 30 mm. d'cm.	2.50
Twenty-five st. reagirglaser, 30 cm. lang 30 mm. d cm. One kiste embellage Twenty-six st. trichterrohren, Huttentrichter Fifty-five st. trichterrohren, Glockentrichter Eleven st. sicherheilsrohren ohne K, No. 586. Eleven st. sicherheilsrohren mit 2 k., H. Eleven st. sicherheilsrohren mit 1 k., H. Eleven st. sicherheilsrohren ohne k., H. Twenty-five trichterrohren, Huttentrichter Two hundred st. kugelrohren aus schwerschmelz, B Fifty st. reagirglaser, 25 cm. lang, 30 mm. d'cm.	8.00
Twenty-six st. trichterrohren, Huttentrichter	6.00
Fifty-five st. trichterrohren, Glockentrichter	8.25
Eleven st. sicherheilsrohren ohne K, No. 586	1.65
Eleven st. sicherheilsrohren mit 2 k., H.	3.63
Eleven st. sicherheilsrohren mit 1 k., H.	2.75
Eleven st. sicherheilsrohren ohne k., H.	2.75
Twenty-nve trichterrohren, Huttentrichter	5.00
Two hundred st. kugeironren aus schwerschmeiz, B	40.00
Twenty-five trichterrofiren, Huttentrichter Two hundred st. kugelrohren aus schwerschmelz, B Fifty st. reagirglaser, 25 cm. lang 30 mm. d'cm. Fifty st. reagirglaser, 25 cm. lang 25 mm. d'cm. Twenty-six st. reagirglaser, 25 cm. lang 20 mm. d'cm. Two hundred st. reagirglaser, 20 cm. lang 20 mm. d'cm. Twenty-five st. reagirglaser, 30 cm. lang 25 mm. d'cm. Thirteen st. reagirglaser, 30 cm. lang 25 mm. d'cm. One kiste embellage Fifty ko. massive stabe, 10 mm. d'cm. One kiste embellage One st. retorte m. st., 5,000 qr. Three st. retorte m. st., 4,000 qr. Four st. retorte m. st., 200 qr. Thirty-five st. retorte m. st., 100 qr. One hundred and twenty st. kochflaschen, 100 qr. Fifty-five st. reagirglaser, 30 cm. lang 40 mm. d'cm. One kiste embellage Fifteen st. trichter, 21 cm. d'cm. Fifteen st. trichter, 16 cm. d'cm. Fifty-two st. trichter, 7 cm. d'cm. One kiste embellage One hundred and fifteen st. trichter, 10 cm. d'cm. Fifteen st. trichter, 18 cm. d'cm. One kiste embellage Sixty-five st. gascutbindungsflaschen, 500 qr. Three st. woulfsche flaschen m. 3 ft. 3,000 gr.	4.00
Twenty six at possingles or 25 cm long 40 mm d'em	$\frac{3.00}{3.12}$
Two hundred st received ser 20 cm lang 20 mm d'am	8.00
Twonty-five at recoinglaser 20 cm lang 20 mm. d'em	2.25
Thirteen at respirituer 30 cm lang 35 mm d'cm	1.56
One kiste embellage	8.00
Fifty ko, massive stabe, 10 mm, d'cm.	50.00
One kiste embellage	3.50
One st. retorte m. st., 5,000 qr.	1.80
Three st. retorte m. st., 4,000 qr.	4.50
Four st. retorte m. st., 200 qr.	1.08
Thirty-five st. retorte m. st., 100 qr.	7.00 7.20 3.30
One hundred and twenty st. kochflaschen, 100 gr.	7.20
Fifty-five st. reagirglaser, 15 cm. lang 40 mm. d'cm.	3.30
Thirteen st. reagirglaser, 30 cm. lang 40 mm. d'cm.	1.95
One kiste embellage	8.00
Fifteen st. trichter, 21 cm. d'cm.	6.75
Fifteen 8t, trichter, 10 cm. d'cm.	3.75
One highe embellage	4.16
One hundred and affect at trighter 10 cm dem	8.00 15.52
Fifteen st trichter 18 cm d'em	5.40
One biste embellage	8.00
Sixty-five at gascuthindungsflaschen 500 or	19.50
Three st. woulfsche flaschen m. 3 ft. 3.000 gr.	6.60
Two st. woulfsche flaschen m. 2 ft., 2.000 gr.	3.00
Two st. woulfsche flaschen m. 2 ft., 3.000 or.	4.00
One hundred and fifteen st. trichter, 5 cm. d'cm.	8.05
One hundred st. trichter, 5 cm., d'cm.	6.00
Fifty-two st. trichter, 7 cm. d'cm	4.16
Twenty-five st. trichter, 8 cm. d'cm.	2.50
Fifteen st. trichter, 18 cm. d'cm. One kiste embellage Sixty-five st. gascutbindungsflaschen, 500 qr. Three st. woulfsche flaschen m. 3 ft., 3,000 qr. Two st. woulfsche flaschen m. 2 ft., 2,000 qr. Two st. woulfsche flaschen m. 2 ft., 3,000 qr. One hundred and fifteen st. trichter, 5 cm. d'cm. One hundred st. trichter, 5 cm., d'cm. Fifty-two st. trichter, 7 cm. d'cm. Twenty-five st. trichter, 8 cm. d'cm. One kiste embellage Forty-two salze becherglaser, Nos. 1-5 Two hundred salze becherglaser, Nos. 1-3	8.00
Forty-two salze becherglaser, Nos. 1-5	31.50
Two hundred salze becherglaser, Nos. 1-3	76.00
One kiste embellage One hundred and thirty st. praparetenglaser m. rand, 100-60 mm	6.00
one nundred and thirty st. praparetenglaser m. rand, 100-60 mm.	32.50

One hundred and twenty-five st, trichter; 8 cm. d'cm.         M. 12.50           Thirty-five st, trichter; 13 cm. d'cm.         7.00           One kiste embellage.         8.00           Beglaubigungsgekuhren.         10.70           Gebuhren agenten.         1.40           Bill of James R. McDonald & Co.;         M. 2460.82           Freight paid on forty-seven cases glassware from Gehlberg to Hamburg, Germany.         M. 140.70           Cartage and shipping charges.         63.60           Forwarding commission.         70.50           Fostage and petites.         1.00           Bill of Samuel Stanton, in pounds, shillings, and pence; total indolars and cents:         M. 276.80         67 00           Is as and cents:         1.00         6 0 0         0           Iwo thermometers, with single cylinder bulb, graduated stems, 40 cm.         100; one reading from 5' to 15' centl., and the other from 15' to 35' £ s. d. centl.         6 0 0           One thermometer with double cylinder bulb and means of adjusting mercury, with 40 cm. divided stem, embracing 3' or 4' centl., divided into arbitrary divisions of cms. and mms.         6 0 0           One chockwork supper.         3 0 0         6 0 0           One chockwork supper.         3 0 0         6 0 0           One clockwork supper.         3 0 0         6 0 0           Single stirring appa	One hundred and twenty-five st. trichter, 8 cm. d'cm.	M.12.50	
Bill of James R. McDonald & Co.;   Freight paid on forty-seven cases glassware from Gehlberg to Hamburg, Germany	One kiste embellage	8.00	
Bill of James R. McDonald & Co.;   Freight paid on forty-seven cases glassware from Gehlberg to Hamburg, Germany	М.	2,478.12	
Bill of James R. McDonald & Co.;   Freight paid on forty-seven cases glassware from Gehlberg to Hamburg, Germany	Beglaubigungsgekuhren	10.70	
Bill of James R. McDonald & Co.:   Preight paid on forty-seven cases glassware from Gehlberg to Hamburg, Germany	Gebunren agenten	1.40	
Bill of James R. McDonald & Co.:   Preight paid on forty-seven cases glassware from Gehlberg to Hamburg, Germany	$\mathbf{M}.$	2,490.82	\$604 02
Dury Germany	Bill of James R. McDonald & Co.:		
M. 276.30   67 00	burg Germany	f. 140.70	
M. 276.30   67 00	Cartage and shipping charges	63.60	
M. 276.30   67 00	Forwarding commission	70.50	
Bill of Samuel Stanton, in pounds, shillings, and pence; total in dollars and cents:   Two thermometers, with single cylinder bulb, graduated stems, 40 cm. long; one reading from 5° to 15° centl., and the other from 13° to 33° £ s. d. centl.	rostage and petties	1.00	
Lars and cents:   Two thermometers, with single cylinder bulb, graduated stems, 40 cm.   long; one reading from 5° to 15° centl., and the other from 13° to 33°			67 00
Two thermometers, with single cylinder bulb, graduated stems, 40 cm. long; one reading from 5° to 15° centl., and the other from 13° to 33° £ s. d. centl		•	
Centl.	Two thermometers, with single cylinder hulb graduated stems 40 cm.		
Centl.	long; one reading from 5° to 15° centl., and the other from 13° to 33°	£ s. d.	
One clockwork supper         3 0 0           One Brown's calibrating apparatus         4 4 0           One copper calorimeter jacket         5 0 0           Tin lined case         15 6           Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270 platinum gauge         18 5 6           Single stirring apparatus with electro-magnetic motion         10 10 0           Packing case         1 0 6           Consular invoices         13 0           Carriage to Liverpool         7 6           Bills of lading and postage         2 6           Dues, entries, etc.         5 6           Freight to San Francisco         19 0 0           Agency and insurance         16 9           Commission         3 0 0           Less on packing boxes         10 0           Freight on sixty-six packages from Hamburg to San Francisco—Wm.Wolff & Co.         35           Three Becker balances and weights—Justinian Caire         191 10           Freight and expressage—Patterson & Co.         41 00           Two carboys—San Francisco Gaslight Co.         35           Two carboys—San Francisco Gaslight Co.         17 45           Two carboys—San Francisco Gaslight Co.         50           One dozen blank books—Le Count Bros.         50           One d	centl.	6 0 0	
One clockwork supper         3 0 0           One Brown's calibrating apparatus         4 4 0           One copper calorimeter jacket         5 0 0           Tin lined case         15 6           Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270 platinum gauge         18 5 6           Single stirring apparatus with electro-magnetic motion         10 10 0           Packing case         1 0 6           Consular invoices         13 0           Carriage to Liverpool         7 6           Bills of lading and postage         2 6           Dues, entries, etc.         5 6           Freight to San Francisco         19 0 0           Agency and insurance         16 9           Commission         3 0 0           Less on packing boxes         10 0           Freight on sixty-six packages from Hamburg to San Francisco—Wm.Wolff & Co.         35           Three Becker balances and weights—Justinian Caire         191 10           Freight and expressage—Patterson & Co.         41 00           Two carboys—San Francisco Gaslight Co.         35           Two carboys—San Francisco Gaslight Co.         17 45           Two carboys—San Francisco Gaslight Co.         50           One dozen blank books—Le Count Bros.         50           One d	One thermometer with double cylinder bulb and means of adjusting		
One clockwork supper         3 0 0           One Brown's calibrating apparatus         4 4 0           One copper calorimeter jacket         5 0 0           Tin lined case         15 6           Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270 platinum gauge         18 5 6           Single stirring apparatus with electro-magnetic motion         10 10 0           Packing case         1 0 6           Consular invoices         13 0           Carriage to Liverpool         7 6           Bills of lading and postage         2 6           Dues, entries, etc.         5 6           Freight to San Francisco         19 0 0           Agency and insurance         16 9           Commission         3 0 0           Less on packing boxes         10 0           Freight on sixty-six packages from Hamburg to San Francisco—Wm.Wolff & Co.         35           Three Becker balances and weights—Justinian Caire         191 10           Freight and expressage—Patterson & Co.         41 00           Two carboys—San Francisco Gaslight Co.         35           Two carboys—San Francisco Gaslight Co.         17 45           Two carboys—San Francisco Gaslight Co.         50           One dozen blank books—Le Count Bros.         50           One d	into arbitrary divisions of cms. and mms.	6 0 0	
Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270 platinum gauge	une managany case for same	וו מו	
Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270 platinum gauge	One clockwork supper	3 0 0	
Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270 platinum gauge	One copper calorimeter incket	500	
Consular invoices 13 0 .  Carriage to Liverpool 7 6  Bills of lading and postage 2 6  Dues, entries, etc. 5 6  Freight to San Francisco 1 90 0  Agency and insurance 15 6  Sundry expenses 16  Commission 3 0 0  Less on packing boxes 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packi	Tin lined case	15 6	
Consular invoices 13 0 .  Carriage to Liverpool 7 6  Bills of lading and postage 2 6  Dues, entries, etc. 5 6  Freight to San Francisco 1 90 0  Agency and insurance 15 6  Sundry expenses 16  Commission 3 0 0  Less on packing boxes 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packi	Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270		
Consular invoices 13 0 .  Carriage to Liverpool 7 6  Bills of lading and postage 2 6  Dues, entries, etc. 5 6  Freight to San Francisco 1 90 0  Agency and insurance 15 6  Sundry expenses 16  Commission 3 0 0  Less on packing boxes 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packing box 10 0  Less on packi	platinum gauge	18 5 6	
Less on packing boxes	Packing case	1 0 6	
Less on packing boxes	Consular invoices	13 0	•
Less on packing boxes	Carriage to Liverpool	7 6	
Less on packing boxes	Dues, entries, etc.	5 6	
Less on packing boxes	Freight to San Francisco	1 90 0	
Less on packing boxes	Agency and insurance	15 6	
Less on packing boxes	Commission	3 0 0	
Less on packing boxes       10 0         £63 0 3       308 43         Custom House entry on seventy-two cases chemicals and glassware—G. W. Reed.       20 00         Freight on sixty-six packages from Hamburg to San Francisco—Wm.Wolff & Co.       170 00         State toll on same—Wm. Wolff & Co.       35         Three Becker balances and weights—Justinian Caire.       191 10         Freight and expressage—Patterson & Co.       41 00         Two hundred and eighteen pounds aqua ammonia—San Francisco Gaslight Co.       5 00         One dozen blank books—Le Count Bros.       50         One dozen blank books—Le Count Bros.       60         One dozen blank books—Le Count Bros.       75         One half dozen memorandum books—Le Count Bros.       3 00			
\$\frac{\pmatrix}{\pmatrix} \frac{\pmatrix}{\pmatrix} \frac{\pmatrix}	I am an machine bance		
Custom House entry on seventy-two cases chemicals and glassware—G. W. Reed       20 00         Freight on sixty-six packages from Hamburg to San Francisco—Wm. Wolff & Co.       170 00         State toll on same—Wm. Wolff & Co.       35         Three Becker balances and weights—Justinian Caire.       191 10         Freight and expressage—Patterson & Co.       41 00         Two hundred and eighteen pounds aqua ammonia—San Francisco Gaslight Co.       17 45         Two carboys—San Francisco Gaslight Co.       5 00         One dozen blank books—Le Count Bros.       50         One dozen blank books—Le Count Bros.       60         One dozen blank books—Le Count Bros.       75         One half dozen memorandum books—Le Count Bros.       3 00	Less on packing boxes	10 0	
	£	63 0 3	308 43
	Custom House entry on seventy-two cases chemicals and glassware—G. V	V. Keed.	20 00 170 00
	State toll on same—Wm. Wolff & Co.	ли « со.	35
	Three Becker balances and weights—Justinian Caire		191 10
	Freight and expressage—Patterson & Co.	-140-	41 00
	Two nundred and eighteen pounds aqua ammonia—Ban Francisco Gash Two carbovs—San Francisco Gaslight Co.	gnt Co	17 40 5 00
	One dozen blank books—Le Count Bros.		50
	One dozen blank books—Le Count Bros.	· · · · · · · · · · · · · · · · · · ·	60
	One helf dozen memorandum books—Le Count Bros	• • • • • • • • • • • • • • • • • • • •	3.00
One copying press—Le Count Bros.         10 00           One bottle ink—Le Count Bros.         1 00           One quart mucilage—Le Count Bros.         50           One box rubber bands—Le Count Bros.         1 00           One box pens—Le Count Bros.         75           Two baskets—Le Count Bros.         1 50           Two carboys muriatic acid—Golden City Chemical Works         12 40           One carboy sulphuric acid—Golden City Chemical Works         4 18           Freight on two cases glassware from Philadelphia—Southern Pacific Co.         34 65           Expressage—Patterson & Co.         1 00           Insurance—Canton Insurance Office         2 56			
One bottle ink—Le Count Bros.       1 00         One quart mucilage—Le Count Bros.       50         One box rubber bands—Le Count Bros.       1 00         One box pens—Le Count Bros.       75         Two baskets—Le Count Bros.       1 50         Two carboys muriatic acid—Golden City Chemical Works       12 40         One carboy sulphuric acid—Golden City Chemical Works       4 18         Freight on two cases glassware from Philadelphia—Southern Pacific Co.       34 65         Expressage—Patterson & Co.       1 00         Insurance—Canton Insurance Office       2 56	One copying press—Le Count Bros.		10 00
One box rubber bands—Le Count Bros.         1 00           One box pens—Le Count Bros.         75           Two baskets—Le Count Bros.         1 50           Two carboys muriatic acid—Golden City Chemical Works         12 40           One carboy sulphuric acid—Golden City Chemical Works         4 18           Freight on two cases glassware from Philadelphia—Southern Pacific Co.         34 65           Expressage—Patterson & Co.         1 00           Insurance—Canton Insurance Office         2 56	One quart mucilege—Le Count Bros.	<b></b>	1 00 50
One box pens—Le Count Bros.         75           Two baskets—Le Count Bros.         1 50           Two carboys muriatic acid—Golden City Chemical Works         12 40           One carboy sulphuric acid—Golden City Chemical Works         4 18           Freight on two cases glassware from Philadelphia—Southern Pacific Co.         34 65           Expressage—Patterson & Co.         1 00           Insurance—Canton Insurance Office         2 56	One box rubber bands—Le Count Bros.		. 100
Two baskets—Le Count Bros.       1 50         Two carboys muriatic acid—Golden City Chemical Works       12 40         One carboy sulphuric acid—Golden City Chemical Works       4 18         Freight on two cases glassware from Philadelphia—Southern Pacific Co.       34 65         Expressage—Patterson & Co.       1 00         Insurance—Canton Insurance Office       2 56	One box pens—Le Count Bros.		75
One carboys muriatic acid—Golden City Chemical Works	Two baskets—Le Count Bros.		1 50
Freight on two cases glassware from Philadelphia—Southern Pacific Co. 34 65 Expressage—Patterson & Co. 1 00 Insurance—Canton Insurance Office 2 56	One carboy sulphuric acid—Golden City Chemical Works	. <b></b>	4 18
Expressage—Patterson & Co	Freight on two cases glassware from Philadelphia—Southern Pacific Co	0	34 65
insurance—Uanton Insurance Umce	Expressage—Patterson & Co.		1 00
	insurance—Canton Insurance Omcę		

\$5,051 26

# APPENDIX No. 6-College of Civil Engineering.

One copy "Agriculture of Massachusetts," 1869-70—Massachusetts State Board of Agriculture Telegram—Western Union Telegraph Co.	
of Agriculture	<b>\$</b> 1 0
Telegram—Western Union Telegraph Co.	5
Telephone—Sunset Telephone Co. One Thacher's "Calculator"—Kenffel & Esser Co.	27 0
One whisk broom—Feigenbaum & Co.	21 0
Expressage—Wells, Fargo & Co.	3 5
Expressage—Wells, Fargo & Co Six pairs butts—Savage Bros Six knobs—Savage Bros	4
Six knobs—Savage Bros.	2
Six draw pulls—Savage Bros. One gross screws—Savage Bros.	2
One gross screws—Savage Bros.	2
Two brass locks—Savage Bros.	10
Eignteen straps—U. Emaly & Sons.	2 7 20 0
Material for glass case—Nichaus Dios. & Co.	12
Rill of Mayer & Muller, in marks: total in dollars and cents:	1 2
Berliner Astronom Tahrbuch, 1890-91 M. 21.60	
Two brass locks—Savage Bros.  Eighteen straps—O. Emaly & Sons.  Material for glass case—Niehaus Bros. & Co.  Traveling expenses—Carl Rabe.  Bill of Mayer & Muller, in marks; total in dollars and cents:  Berliner Astronom Tahrbuch, 1890-91  Porto 2.00	
M. 23.60	5 7
One hank sash cord—Osborn & Alexander	8
Porting same_Osborn & Alexander	7 2
One lot nens—Le Count Bros.	2
One graduated spirit level—A. Lietz & Co.	10 0
One lot pens—Le Count Bros. One clamp screw—A. Lietz & Co. One clamp screw—A. Lietz & Co.	ĭŏ
One clamp screw—A. Lietz & Co. One burner—A. S. Graff & Co. Twenty gallons Elaine oil—J. McClain Nineteen yards Duplex drawing paper—E. Denny & Co. Ten yards Paragon drawing paper—E. Denny & Co. One roll tracing cloth—E. Denny & Co. One half dozen Hunter's axes—Osborn & Alexander One half dozen ax handles—Osborn & Alexander One half dozen chalk lines—Osborn & Alexander	9
Twenty gallons Elaine oil—J. McClain	64
Nineteen yards Duplex drawing paper—E. Denny & Co	1 2
Ten yards Paragon drawing paper—E. Denny & Co.	8 8
One roll tracing cloth—E. Denny & Co.	7 5
One half dozen av handles—Osborn & Alexander	4 5 6
One half dozen chalk lines—Osborn & Alexander	ě
One vise—Osborn & Alexander	5
One jeweler's hammer—Osborn & Alexander	6
One pair cutting pliers—Osborn & Alexander	7
Two files—Osborn & Alexander	5
One vise—Osborn & Alexander One jeweler's hammer—Osborn & Alexander One pair cutting pliers—Osborn & Alexander Two files—Osborn & Alexander Two sets circular stencils—C. A. Klinkner & Co.	50
One map of California—S. W. Dunn	2 0
Traveling expenses—Carl Rabe.	2
Repairing clock—Alired Berg	10 0
Tempose on Petteran & Co	3
One Su-frost steel tane—Buff & Berger	6 1
Three k-pint cans mixed paint—T. J. Bass & Co.	7
Two brushes—T. J. Bass & Co.	į
One bottle turpentine—T. J. Bass & Co.	1
Thirty-three and one third hours clerical work—W. C. Allen	10 0
Enlarging holes in plate glass—F. M. Farwell.	5 (
One graduated level—A. Lietz & Co.	4 (
Two sets circular stencils—C. A. Klinkner & Co. One map of California—S. W. Dunn Traveling expenses—Carl Rabe Repairing clock—Alfred Berg. Cleaning and regulating sidereal chronometer—F. H. McConnell Expressage—Patterson & Co. One 50-foot steel tape—Buff & Berger Three J-pint cans mixed paint—T. J. Bass & Co. Two brushes—T. J. Bass & Co. Two brushes—T. J. Bass & Co. Thirty-three and one third hours clerical work—W. C. Allen Enlarging holes in plate glass—F. M. Farwell One graduated level—A. Lietz & Co. One foll blue print—E. Denny & Co.	3 0
One desk scraper—Savage Dros.	6
One roll blue print—E. Denny & Co. One desk scraper—Savage Bros. Traveling expenses—Carl Rabe Repairing weather vane—Dalziel & Moller Repairing two electric burners—California Electrical Works One incandescent burner—California Electrical Works	4
Repairing two electric burners—California Electrical Works	4 5
One incandescent burner—California Electrical Works	2 5
Sal ammoniac—California Electrical Works	2 8
Sai ammoniac—California Electrical Works. Six 4-throw switches—California Electrical Works. Chromate of potassium—California Electrical Works Box for same—California Electrical Works. Expressage—Patterson & Co. Three 15-M accumulators—Pacific Electrical Storage Co. Chimneys—J. McClain Traveling express—Carl Robe	4 6
Chromate of potassium—California Electrical Works	40
Box for same—California Electrical Works.	1
Expressage—Patterson & Co.	1.5
Three 15-M accumulators—Pacific Electrical Storage Co	45 0
Unimneys—J. McClain	2
11avening expenses—Carritable	2
Traveling expenses—Carl Rabe.	2
Traveling expenses—Carl Rabe	2
One brush—Buchanan Bros.  Expressage—Patterson & Co  Cleaning and repairing seismograph—F. H. McConnell	2 (
Cleaning and renairing seigmograph—F. H. McConnell	10 0
Expressage—Patterson & Co.	2 5
Expressage—Wells, Fargo & Co.	- 2
Expressage—Patterson & Co.  Expressage—Wells, Fargo & Co.  Ten yards crash toweling—R. Weill & Son	1 0
One pair shears—Dutton & Partridge	2 0
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Replacing worn parts, cleaning, repairing, and adjusting the Grey-Milne seis- mograph—Joseph Le Conte, Jr.	\$25 00
mograph—Joseph Le Conte, Jr.  Two shears ground—A. Erlandsen  Six No. 2 leader chimneys—Nathan, Dohrmann & Co.  Repairing level—A. Leitz & Co.	40 90
Repairing levelA. Leitz & Co	2 00
APPENDIX No. 7 A—College of Mechanics.	\$271 79
Expressage—Patterson & Co	\$0 75
Expressage—Patterson & Co.  Three thousand five hundred cubic feet gas—Oakland Gas Co.  One hundred and five pounds sheet brass—Justinian Caire  Twelve pounds odder—Justinian Caire	8 75 33 15
	3 00
Three camel's hair brushes—Justinian Caire Three camel's hair brushes—Justinian Caire	75 90
One bottle metal varnish—Justinian Caire One half dozen hose couplings—Justinian Caire	1 50
Repairing vise—Justinian Caire	3 50 4 00
Repairing vise—Justinian Caire One half dozen locks—Justinian Caire Four sheets galvanized iron—Justinian Caire Four thousand six hundred cubic feet gas—Oakland Gas Co.	2 70
Four thousand six hundred cubic feet gas—Oakland Gas Co.	4 75 11 50
Expressage—Patterson & Co.  Three thousand five hundred cubic feet gas—Oakland Gas Co.  Four thousand six hundred cubic feet gas—Oakland Gas Co.	1 25
Three thousand five hundred cubic feet gas—Oakland Gas Co	8 75 11 50
Expressage—Patterson & Co.  Four thousand four hundred cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co.  Nine thousand four hundred cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co.  Two reams parchment—H, S. Crocker & Co.  One half thousand Chelmsford epo—H. S. Crocker & Co.  One half dozen penholders—H. S. Crocker & Co.	2 75
Four thousand four hundred cubic feet gas—Oakland Gas Co	11 00 1 00
Nine thousand four hundred cubic feet gas—Oakland Gas Co.	23 50
Expressage—Patterson & Co.	75 4 20
One half thousand Chelmsford epo—H. S. Crocker & Co.	1 50
One half dozen penholders—H. S. Crocker & Co	30 75
	75 30
One half dozen penholders, wood—H. S. Crocker & Co.  Eight pieces velvet rubber—H. S. Crocker & Co.  Two pieces Faber's artist—H. S. Crocker & Co.	50
Two boxes bands—H. S. Crocker & Co.	30 1 13
One box pens—H. S. Crocker & Co. One bottle black ink—H. S. Crocker & Co.	1 00
Three bottles Worthington ink—H. S. Crocker & Co.	25 45
One bottle mucilage—H. S. Crocker & Co. One bottle mucilage—H. S. Crocker & Co.	25
One and one half dozen pads—H. S. Crocker & Co.	25 1 65
Two pads for desk—H. S. Crocker & Co.  Seven quires manilla paper—H. S. Crocker & Co.	1 15
Two rolls blue print paper—H. S. Crocker & Co.	2 50 4 60
Fifteen pounds emery flour—Justinian Caire One pound burrs and washers—Justinian Caire	1 50
One pair tongs—Justinian Caire	35 1 50
One steam gauge—Justinian Caire	6 75
One siphon and cock—Justinian Caire	1 25 1 50
Twenty-five feet $f_{\bf k}$ -inch rubber pipe—Justinian Caire  Twenty-five feet $f_{\bf k}$ -inch rubber pipe—Justinian Caire	1 75
	2 00 50
One dozen lead numbers—Justinian Caire. One dozen emery sticks—Justinian Caire One half dozen 9-inch hand-cut files—Justinian Caire One half dozen 2-inch hand-cut files—Justinian Caire One half dozen 2-inch hand-cut files—Justinian Caire	50
One dozen emery sticks—Justinian Caire	35 4 00
One half dozen 2-inch hand-cut files—Justinian Caire	3 25
	1 80 1 10
One fourth dozen 6-inch hand-cut files (square)—Justinian Caire One fourth dozen 5-inch hand-cut files (square)—Justinian Caire One fourth dozen 4-inch hand-cut files (square)—Justinian Caire	90
One fourth dozen 41-inch hand-cut files (square)—Justinian Caire	90
One fourth dozen 6-inch half-round files—Justinian Caire One fourth dozen 4-inch half-round files—Justinian Caire	1 20 1 00
Pulleys—Justinian Caire	25
Wire cloth—Justinian Caire Two 5-inch hand vises—Justinian Caire	4 35 3 00
Two 5-inch hand vises—Justinian Caire	6 50
Expressage—Patterson & Co.  Four thousand six hundred cubic feet gas—Oakland Gas Co.	2 25 11 50
Assorted paints—California Paint Co.  Three hundred and fifty-six pounds castings—Hinkley, Spiers & Hayes	3 75
Three hundred and fifty-six pounds castings—Hinkley, Spiers & Hayes	16 02
Pattern work—Hinkley, Spiers & Hayes	21 00
Expressage—Patterson & Co.	7 00
1414	_

Five thousand five hundred cubic feet gas—Oakland Gas Co. One piece pipe—Dunham, Carrigan & Hayden Co. Three sheaves—Dunham, Carrigan & Hayden Co. Two flanges—Dunham, Carrigan & Hayden Co. Screw pulleys—Dunham, Carrigan & Hayden Co.	\$13 75 1 50 1 80 2 80 45
APPENDIX No. 7 B-College of Mechanics-State Appropriation.	\$285 <b>4</b> 5
Ten gallons cylinder oil—Union Oil Co.	· <b>\$1</b> 0 00
Ten gallons electric oil—Union Oil Co	7 50
Two clock movements—Nordman Bros. Two dozen chilled iron saws—Justinian Caire.	10 50
One molding plane—Instinian Caire	1 80 1 75
One half dozen small locks—Justinian Caire	1 50
One clock spring—Justinian Caire One dozen screw pulleys—Justinian Caire Assortment of wheels and pinions—Justinian Caire	1 50
Assortment of wheels and pinions—Justinian Caire	2 25 10 00
One valve—Justinian Caire	2 25
Eighty feet catgut—Justinian Caire One half dozen flat files—Justinian Caire	2 00 3 00
Five pounds sheet wire—Justinian Caire	5 75
One saw frame—Justinian Caire	1 50
Gas cutting tools—Justinian Caire  Three hars rolled iron—Justinian Caire	14 50 7 00
Three bars rolled iron—Justinian Caire Seventy-five pounds brass castings—F. Band	22 50
One set twist drills—Justinian Caire	7 50
One set assorted drills—Justinian Caire One half dozen pairs brass hinges—Justinian Caire One half dozen brass locks—Justinian Caire	15 25 45
One half dozen brass locks—Justinian Caire	1 45
Fifteen pounds brass wire rods—Justinian Caire	4 50
Assortment of bronze—Justinian Caire	1 50 2 00
Two spring dividers—Justinian Caire One machinist's square—Justinian Caire————————————————————————————————————	1 50
Iron clamps—Justinian CaireOne vulcanizer and attachments—James W. Edwards	4 10
One vulcanizer and attachments—James W. Edwards One metal case—Bernstein & Co.	57 25 15 00
One walnut base—Bernstein & Co.	2 00
One walnut base—Bernstein & Co. Thirteen window shades—Frank S. Wright Thirty cells prism leclanche—Paul Seilers Electrical Works	45 00
Thirty cells prism leclanche—Paul Sellers Electrical Works	39 60 18 00
Fifteen cells Fuller—Paul Seilers Electrical Works Three leclanche zincs—Paul Seilers Electrical Works	45
Three leclanche zincs—Paul Seilers Electrical Works Fifteen pounds bichromate potash—Paul Seilers Electrical Works	3 75
Three boxes—Paul Seilers Electrical Works Two galvanized boxes, with faucets—George H. Tay & Co.	20 00
Two garvanized boxes, with faucets—George H. Tay & Co	20 00
APPENDIX No. 8 A-College of Mines.	<b>\$34</b> 5 90
	e1 50
One thousand one hundred cubic feet gas—Oakland Gas Co	\$1 50 2 75
One gross drawer pulls—Dunham, Carrigan & Hayden Co	
One sixth gross drawer pulls—Dunham, Carrigan & Hayden Co	
Three gross screws—Dunham, Carrigan & Hayden Co. 45	
Four dozen screws—Dunham, Carrigan & Hayden Co	
<b>\$7</b> 28	
Discount	
Eight hundred cubic feet gas—Oakland Gas Co.	4 27 2 00
Expressage—Patterson & Co.	5 00
Expressage—Patterson & Co. Two thousand five hundred cubic feet gas—Oakland Gas Co.	6 25
Forging six pokers—McIntosh & Frye One half dozen carriage bolts—Savage Bros.	1 50 30
One coller—Ine Wagner Manufacturing Co	50
Five pounds putty—S. Wakeham One pint shellac—S. Wakeham One thousand eight hundred cubic feet gas—Oakland Gas Co.	25
One thousand eight hundred cubic feet gas—Oakland Gas Co.	50 4 50
One half gross japanned drawer pulls—Dunnam, Carrigan & Hayden Co. \$1 44	
One quarter gross japanned drawer pulls—Dunham, Carrigan & Hay-	
den Co.         1 50           Three dozen sash rollers—Dunham, Carrigan & Hayden Co.         3 00	
55 94 Discount 2 09	
Discount	3 85

SECRETARY TO THE BOARD OF REGENTS.	203
Expressage—Patterson & Co.	<b>\$</b> 5 <b>2</b> 5
One barrel cement—Savage Bros	4 25
One half dozen bolts—Savage Bros.	35
One half dozen bolts—Savage Bros. One pound copper rivets and burrs—Osborn & Alexander. One rivet set—Osborn & Alexander Expressage—Patterson & Co. Four thousand cubic feet gas—Oakland Gas Co.	40 50
Expressage—Patterson & Co.	3 75
Four thousand cubic feet gas—Oakland Gas Co.	10 00
Expressage—Patterson & Co.  Expressage—Patterson & Co.  Expressage—Patterson & Co.  Eight thousand one hundred cubic feet gas—Oakland Gas Co.  One hundred and five gallons coal oil—Osborn & Alexander  One tank and bibb—Osborn & Alexander	75
Eight thousand one hundred cubic feet gas—Oakland Gas Co	4 50 20 25
One hundred and five gallons coal oil—Osborn & Alexander	12 60
One tank and bibb—Osborn & Alexander.	12 00
Cartage on same—Osborn & Alexander One hundred and five gallons coal oil—Osborn & Alexander	1 50
Three porous cells—Justinian Caire	$\begin{array}{ccc} 12 & 60 \\ 1 & 20 \end{array}$
Three porous cells—Justinian Caire Four large rubber stoppers—Justinian Caire	2 60
Six glass tubes—Justinian Caire Four bell glass jars and rubber stoppers—Justinian Caire Twenty-five pounds potassium chlorate—Justinian Caire	4 50'
Four bell glass jars and rubber stoppers—Justinian Caire	7 52
Twenty-nve pounds potassium chiorate—Justinian Caire	5 00 7 25
Expressage—Patterson & Co.  One piece 2-inch pipe, with caps—Dalziel & Moller.  Two sacks charcoal—Stewart & Trowbridge One sack salt—Stewart & Trowbridge One paper screws—Savage Bros. One pint shellac—S. Wakeham One can paint—S. Wakeham One Yale nightlatch—A. Erlandsen One brogged door plate—A. Erlandsen	60
Two sacks charcoal—Stewart & Trowbridge	1 60
One sack salt—Stewart & Trowbridge	20
One paper screws—Savage Bros.	45
One can paint—S. Wakeham	75 1 00
One Yale nightlatch—A. Erlandsen	3 00
One bronzed door plate—A. Erlandsen Carbons—Berkeley Electric Light Co.	25
Carbons—Berkeley Electric Light Co.	75
Four glass jars—Justinian Caire Twenty-one and one half hours' labor repairing dynamo—Electric Engraving Co. Shaft, spider, and wire—Electric Engraving Co.	10 80 13 97
Shaft spider and wire—Electric Engraving Co.	5 00
Expressage—Patterson & Co.	75
Expressage—Patterson & Co. One pair Button's pliers—Dunham, Carrigan & Hayden Co. Two dozen door buttons and plates—Dunham, Carrigan & Hayden Co.	1 00
Two dozen door buttons and plates—Dunham, Carrigan & Hayden Co One half dozen bastard files—Dunham, Carrigan & Hayden Co	1 50
Sixty feet bleek Linch nine Dunham, Carrigan & Hayden Co.	95 1 43
Sixty feet black 1-inch pipe—Dunham, Carrigan & Hayden Co. Sixty feet black 3-inch pipe—Dunham, Carrigan & Hayden Co. Sixty feet black 3-inch pipe—Dunham, Carrigan & Hayden Co.	1 65
Sixty feet black 1-inch pipe—Dunham, Carrigan & Hayden Co	$\frac{1}{2}$ $\frac{1}{10}$
One bundle black 4-inch pipe—Dunham, Carrigan & Hayden Co. One bundle black 1-inch pipe—Dunham, Carrigan & Hayden Co. One dozen file handles—Dunham, Carrigan & Hayden Co.	3 85
One bundle black 1-inch pipe—Dunham, Carrigan & Hayden Co	4 05
Three thousand one hundred cubic feet gas—Oakland Gas Co.	50 7 75
Four boiler tubes—Osborn & Alexander	4 50
Four boiler tubes—Osborn & Alexander Repairing arms for mullers—Nelson & McLellan Two thousand three hundred pounds Cumberland coal—Stewart & Trowbridge	2 50
Two thousand three hundred pounds Cumberland coal—Stewart & Trowbridge	20 00
Twelve glass tubes—Justinian Caire Six-pound bottle, C. P. H. nozzle—Justinian Caire	4 20 13 44
Six porous cells—Justinian Caire One glass apparatus—Justinian Caire Expressage—Patterson & Co. Three thousand three hundred cubic feet gas—Oakland Gas Co. Two Dodge wood-split pulleys—Simonds Saw Co. Twenty feet 5½-inch stove-pipe, one damper, one corrugated elbow, one collar, and one thimble—J. M. McNamara	1 80
One glass apparatus—Justinian Caire	7 75
Expressage—Patterson & Co.	2 00
Three thousand three hundred cubic feet gas—Uakiand Gas Co	9 25 5 26
Twenty feet 54-inch stove-pipe, one damper, one corrugated elbow, one collar.	0, 20
and one thimble—J. M. McNamara	4 50
<del>-</del>	4000 04
APPENDIX No. 8 B—College of Mines—State Appropriation.	\$289 04
Two hundred pounds Paris white—Whittier, Fuller & Co	
Fifteen pounds fish glue—Whittier, Fuller & Co. 5 25	
Four pounds O. K. stucco—Whittier, Fuller & Co. 460 Thirteen and three fourths yards cotton sheeting—Whittier, Fuller & Co. 550	
<b>\$18 35</b>	
Less 70	<b>017</b> 05
One thousand and forty-four feet pine lumber—Henry W. Taylor	\$17 65 24 01
Three hundred and four feet T. and G. redwood—Henry W. Taylor	9 72
Two hundred and ninety-four feet surfaced redwood—Henry W. Taylor	9 70
Four hundred feet pine—Henry W. Taylor. Mill work—Henry W. Taylor	9 20
Cartage—Henry W. Taylor	11 93 1 00
Cartage—Henry W. Taylor Iron work for two arastras—Hinkley, Spiers & Hayes	110 00
One elevator boot and sleeve—George H. Tay & Co	31 00
One screw conveyor trough—George H. Tay & Co.	12 00

forty-eight steel cups, one hundred elevator bolts, seventy feet cotton belting, comp. rings and leather—Wagner Manufacturing Co.	\$70
ight hundred and forty-six feet boards—H. W. Taylor	31
fill work—H. W. Taylor ifty pieces clear pine—H. W. Taylor eventy-one feet boards—H. W. Taylor	1 8
nty pieces clear pine—ii. w. raylor	2 8
	- 7
Ill Work—H. W. Taylor ne batea—Justinian Caire ne keg assay litharge—Justinian Caire ne hundred pounds C. P. lead—Justinian Caire lowpipe material—Justinian Caire ne hundred dozen "E" Battersea crucibles—John Taylor & Co.	1 (
ne keg assay litharge—Justinian Caire	8 (
ne hundred pounds U. P. lead—Justinian Caire	16 (
ne hundred dozen "E" Rattersea crucibles—Iohn Taylor & Co	56 2
ifty dozen "F" Battersea crucibles—John Taylor & Co.	31 8
ifty dozen "F" Battersea crucibles—John Taylor & Co. ne compass—H. S. Crocker & Co. ne Abney level—H. S. Crocker & Co.	17 8
ne Abney level—H. S. Crocker & Co.	18 (
ne pedometer—H. S. Crocker & Co.	6 8
Appendix No. 9—Department of Lick Observatory.	\$501 8
xpenses examining manganese deposit—A. W. Jackson	<b>\$1</b> 5 (
na Astronom Nachrichten_R Westermann & Co	8 (
elegrams—Western Union Telegraph Co.	8 (
ne red ry olohe—H. A. Mathews	2 (
ne star red globe—H. A. Mathews	
elegrams—Western Union Telegraph Co. elephones—Sunset Telephone Co. ne red ry. globe—H. A. Mathews ne star red globe—H. A. Mathews wo hundred and fifty-five and one half gallons heavy black oil—Pacific Oil Co.	30
	6
xpressage—Farmers Union xpressage—H. C. Brown	25 13
ewing curtains—Mrs. Humphrey	13
ewing curtains—Mrs. Humphreyne fourth dozen rules—H. A. Mathews	ī.
ne fourth dozen India ink—H. A. Mathews hree thousand feet lattice—Santa Clara Valley Mill and Lumber Co.	
hree thousand feet lattice—Santa Clara Valley Mill and Lumber Co.	18
hree hundred feet lattice—Santa Clara Valley Mill and Lumber Co	2 22
ive gallons boiled linseed oil—Farmers Union	3
ne plain shade—Rucker Bros.	1
The glain shade—Rucker Bros.	1 -
Less 10 per cent	63
ix patent transfer frames—S. C. Partridge	3
ix hanks sash cord—Farmers Union	6
ix hose bibbs—Farmers Unionne fourth dozen padlocks—H. A. Mathews	6
eventeen extra kevs—H A Mathews	2
eventeen extra keys—H. A. Mathews orty pounds ells and nipples—The John Stock Sons epairing lens—Wight & Branham	<b>-</b>
epairing lens—Wight & Branham	1
ne hammer—Lovett & Gommell	1
ne box soap—Farmers Union ne dozen hack saws—Farmers Union	${\overset{1}{2}}$
ne punch—Farmers Union	í
ne punch—Farmers Union ne half dozen 8-ounce tacks—Farmers Union	-
hree whisk brooms—Farmers Union	_
arlor matches—Farmers Union	1
Neven pounds_nails—Farmers UnionVhip for team—Farmers Union	1
wa naint hrushes	3
xpressage—H. C. Brown	ĭ
xpressage—H. C. Brown lelegram—Western Union Telegraph Co. lestage stamps—S. W. Burnham lattern for a part of telescope—Wight & Branham lettern for a part of telescope—Wight & Branham lettern for a part of telescope—Wight & Branham	
ostage stamps—S. W. Burnham	20 3
wenty-one nounds bronze casting—Wight & Branham	8
abor on casting—Wight & Branham	8
abor on casting—Wight & Branham  light new shoes—T. A. Carroll	4
ight new shoes—T. A. Carroll	4
our tugs for harness—Keiser & Koch \$8 00 ne boot for mule—Keiser & Koch 75	
\$8.75	
Less	8

One light glass for cupola—Whittier, Fuller & Co. Packing—Whittier, Fuller & Co. Staples for wire fence—Farmers Union. One hundred and twelve pounds hypo—S. C. Partridge. Five gallons turpentine—Farmers Union. Twenty-one pounds waste—Farmers Union. Twenty-one pounds waste—Farmers Union. Five dozen & Carbutt L. S. plates—S. C. Partridge. Five yards thin P. & B. paper—S. C. Partridge. Six sheets black paper—S. C. Partridge. Six sheets black paper—S. C. Partridge. BOX—S. C. Partridge.  Three B. scrapers—Farmers Union. Four pounds chrome green—Farmers Union. One copy Neison's Work on the Moon—William Wesley & Son Packing two cases books—E. T. Anthony & Co. Annuairedu Bureau des Longitudes, 1838–1853–1876–1877–1878—Miss D. W. Lyman T. Bugge's Observations Astrom., Copenhagen—Miss D. W. Lyman Hind's Solar System—Miss D. W. Lyman Nature, from November 2, 1871, to May, 1876—Miss D. W. Lyman Binding two Bahensting—Hicks-Judd Co. Fifty boxes for preserving negatives—A. Fleishhacker & Co. Five gallons balata paint—George B. McKee & Co. Two gallons balata paint—George B. McKee & Co. Cleaning chronometer and chain hook—F. H. McConnell. Four dozen ‡ Seed plates—S. C. Partridge One half dozen quarts violet ink—Payot, Upham & Co. Postage stamps—S. W. Burnham Ten tons hay—J. D. D. Bernal	\$3 00
Packing—Whittier, Fuller & Co.	50
Staples for wire fence—Farmers Union	50
Five callons turnenting. Formers Union	5 00 3 50
Twenty-one pounds waste—Farmers Union	3 15
Five dozen & Carbutt L. S. plates—S. C. Partridge	3 25
Five yards thin P. & B. paper—S. C. Partridge	25
Six sheets black paper—S. C. Partridge	15
Box—S. C. Partridge	10
Three B. scrapers—Farmers Union	1 50
Four pounds chrome green—Farmers Union.	80 <b>4</b> 71
Packing two cases books R. T. Anthony & Co.	5 00
Annuaire du Bureau des Longitudes, 1838–1853–1876–1877–1878—Miss D. W. Lyman	1 00
T. Bugge's Observations Astrom., Copenhagen—Miss D. W. Lyman	ī 00
Hind's Solar System—Miss D. W. Lyman	50
Nature, from November 2, 1871, to May, 1876—Miss D. W. Lyman	10 00
Postage and registry—Miss D. W. Lyman	75
Binding two Bahensting—Hicks-Judd Co.	1 80
First five hoves for preserving negatives—A. Fleighbacker & Co.	2 75 2 48
Forey-five boxes for negatives—A. Fielshinacker & Co.	6 25
Two gallons balata paint—George B. McKee & Co.	2 50
Cleaning chronometer and chain hook—F. H. McConnell	10 00
Four dozen & Seed plates—S. C. Partridge	2 60
Box—S. C. Partridge	10
One half dozen quarts violet ink—Payot, Upham & Co	2 70
Postage stamps—S. W. Burnham	25 00
One half dozen quarts violet ink—Payot, Upham & Co. Postage stamps—S. W. Burnham Ten tons hay—J. D. D. Bernal One Rochester camera—E. E. Barnard Two volumes Encyclopædia Britannica—Edward Holland Expressage—H. C. Brown Expressage—Farmers Union Expressage—H. C. Brown Expressage—H. C. Brown Expressage—H. C. Brown Expressage—Farmers Union	150 00
One Rochester Camera—E. E. Barnard	15` 00 14   00
Evinessage H C Brown	26 78
Expressage—H. J. Ward	4 52
Expressage—Farmers Union	56 20
Expressage—H. C. Brown	11 70
Expressage—Farmers Union Thirty pounds waste—Union Iron Works	15 85
Thirty pounds waste—Union Iron Works	4 20
Two Edison lamps—Paul Seilers Electrical Works	2 00
One plate letter box—Paul Sellers Electrical Works.	3 61 6 00
Five dozen manifia letter paus—rayot, Opinan Co.	3 75
Three dozen negative plates—S.C. Partridge	1 95
Box—S. C. Partridge	10
One plate letter box—Paul Seilers Electrical Works.  Four dozen manilla letter pads—Payot, Upham Co.  Five dozen manilla note pads—Payot, Upham & Co.  Three dozen negative plates—S. C. Partridge  Box—S. C. Partridge  Horse feed—Farnsworth Bros.	11 00
Expressage—H. C. Brown Six rim locks—The John Stock Sons Six pairs strap hinges—The John Stock Sons	4 74
Six rim locks—The John Stock Sons	1 50
Six pairs strap hinges—The John Stock Sons	1 20
Assorted nails—The John Stock SonsAssorted screws, brass and iron—The John Stock Sons	5 00 5 00
Assorted screws, prass and from—The John Stock Sons	4 25
Butt hinges—The John Stock Sons Ten pounds solder—The John Stock Sons Assorted window glass—The John Stock Sons Twelve sheets corrugated galvanized iron—The John Stock Sons Four hundred and twenty-nine feet T. and G. redwood—Santa Clara Valley Mill	1 80
Assorted window glass—The John Stock Sons	10 00
Twelve sheets corrugated galvanized iron—The John Stock Sons.	15 00
Four hundred and twenty-nine feet T. and G. redwood—Santa Clara Valley Mill	
	15 00
One Wells' Adder—B. Westermann & Co.  Postage and register fees—B. Westermann & Co.  One Pickering governor—Wight & Branham  Binding fourteen volumes—Hicks-Judd Co.	7 00
Postage and register fees—B. Westermann & Co	28 50 00
One Pickering governor—Wight & Brannain.	9 10
Binding fifteen volumes—Hicks-Judd Co	13 50
Binding fifteen volumes—Hicks-Judd Co. Binding two volumes—Hicks-Judd Co.	2 70
Rinding aight valumagHigks-lidd (20	5 20
Binding three volumes—Hicks-Judd Co	90
Binding three volumes—Hicks-Judd Co.  Binding one volume—Hicks-Judd Co.  Bent of telephone, one year—Sunset Telephone Co.	1 15
Rent of telephone, one year—Sunset Telephone Co	35 00
One carboy—Paul Seilers Electrical Works.  One hundred and ninety-two pounds sulphuric acid—Paul Seilers Electrical	2 50
One nungred and ninety-two pounds sulphuric acid—raul Seliers Electrical	4 80
Works	1 80
Ten pounds bichromate of potash—Paul Seilers Electrical Works	2 40
One black sign—Paul Seilers Electrical Works.	5 50
Freight paid—Paul Seilers Electrical Works	81
Freight paid—Paul Seilers Electrical Works One 1-gallon pitcher—Farmers Union	60
One 2-quart pitcher—Farmers Union	50 15
Une L-nint nitcher—Rarmers Union	1.5

#### ANNUAL REPORT OF THE

Forty pieces Oregon pine—Santa Clara Valley Mill and Lumber Co.	\$12 00
One gross assorted pens—Payot, Upham & Co. One dozen Stafford's carmine—Payot, Upham & Co. Two and one half pounds sulph, soda—S. H. Wagner One Peab holder S. C. Partridge	1 55 2 54
Two and one half pounds sulph, soda—S. H. Wagner	1 00
Two and one half pounds sulph. soda—S. H. Wagner One Roch holder—S. C. Partridge Slides for holder—S. C. Partridge. Postage—S. C. Partridge. Five dozen deck plates—S. C. Partridge Box—S. C. Partridge Thirty dozen plates—S. C. Partridge Forty-nine and one half gallons linseed oil—Whittier, Fuller & Co. Cartage—Whittier, Fuller & Co. Two spools for curtain—A. Hale & Co. Two rings for curtain—A. Hale & Co. Two rings for curtain—A. Hale & Co. Thirteen yards cretonne curtain—A. Hale & Co. Two basin cocks—The John Stock Sons	2 00
Slides for holder—S. C. Partridge	50
Postage—S. C. Partridge	15
Rox—S. C. Partridge	3 25 10
Thirty dozen plates—S. C. Partridge	18 15
Forty-nine and one half gallons linseed oil—Whittier, Fuller & Co.	33 16
Cartage—Whittier, Fuller & Co.	50
Two spools for curtain—A. Hale & Co.	10
Two hooks for curtain—A. Hale & Co.	20
Thirton words extonne austein. A Hele & Co.	20 2 15
Two basin cocks—The John Stock Sons	6 00
One basin cock—The John Stock Sons.	2 00
Two basin cocks—The John Stock Sons One basin cock—The John Stock Sons One hundred feet halyards—Neville & Co.  Expressage—Neville & Co. Two bottles nitric acid—Redington & Co.	1 50
Expressage—Neville & Co.	25
Two bottles nitric acid—Redington & Co.	3 00
One door and frame—R. Fraser One rim lock—R. Fraser One pair hinges—R. Fraser Four N. P. batteries—Paul Seilers Electrical Works	6 60 60
One pair hinges—R. Fraser	25
Four N. P. batteries—Paul Seilers Electrical Works	26 00
Three picture frames—R. Fraser.  Three lights glass—R. Fraser.  Seventy-two boxes plates for negatives—A. Fleishhacker & Co.	4 80
Three lights glass—R. Fraser.	1 80
Seventy-two boxes plates for negatives—A. Fleishhacker & Co.	3 96
One nound highlighted earling. Tuetinian Caire	5 40 50
Expressage—Mount Hamilton Stage Co.	2 06
Ten days' labor—R. P. Fraser	50 00
Three days' labor—R. Bennett	9 00
Fifty feet steel tape—John Roach	7 50
Labor painting dome—W. T. Maynard	92 75
Stage lare—W. I. Maynard	3 00 4 00
Evnreggor—H. C. Brown	9 58
Seventy-two boxes plates for negatives—A. Fleishhacker & Co. Twenty-four sheets pasteboard—A. Fleishhacker & Co. One pound bisulphide carbon—Justinian Caire.  Expressage—Mount Hamilton Stage Co. Ten days' labor—R. P. Fraser Three days' labor—R. Bennett Fifty feet steel tape—John Roach. Labor painting dome—W. T. Maynard Stage fare—W. T. Maynard Painting—Chris. Shilling. Expressage—H. C. Brown Expressage—J. D. D. Bernal Telegrams—Western Union Telegraph Co. One case oil—Farmers Union.	28 50
Telegrams—Western Union Telegraph Co.	6 47
One case oil—Farmers Union	2 30
Screens for lamps—Farmers Union	50
Floor brush—Farmers Union	3 00 1 20
Six balls twine—Farmers Union Tumblers for visitors' room—Farmers Union	50
One brush for visitors' room—Farmers Union	1 00
Two trowels—Farmers Union  Five gallons linseed oil—Farmers Union One half dozen saw files—Farmers Union	1 40
Five gallons linseed oil—Farmers Union	3 75
One half dozen saw files—Farmers Union	50
One case oil—Farmers Union	2 30 6 25
One number bounds white teal—Farmers Union  Six barrels cement—Farmers Union One 8-foot ladder—Farmers Union Two paint brushes—Farmers Union Six cans lye—Farmers Union Twenty-five pounds zinc—Farmers Union Fifty pounds yellow ochre—Farmers Union Wive rellows cill—Farmers Union	7 75
Six barrels cement—Farmers Union	27 00
One 8-foot ladder—Farmers Union	3 20
Two paint brushes—Farmers Union	3 00
Six cans lye—Farmers Union	50 3 25
Fifty nounds vellow othre—Farmers Union	2 50
Five gallons oil—Farmers Union	3 75
Five gallons oil—Farmers Union Five gallons turpentine—Farmers Union	3 50
Matches—Farmers Union	2 00
Matches—Farmers Union One barrel raw linseed oil—Whittier, Fuller & Co. Two hundred pounds white lead—Whittier, Fuller & Co.	34 50 12 00
One can green—Whittier, Fuller & Co.	12 00 80
One can vellow ochre—Whittier, Fuller & Co.	1 10
One can yellow ochre—Whittier, Fuller & Co. One can coach black—Whittier, Fuller & Co.	1 70
One can umber—Whittier, Fuller & Co.	70
Fifteen pounds Paris white—Whittier, Fuller & Co.	37
Ten pounds French zinc—Whittier, Fuller & Co. One pound Cooper's glue—Whittier, Fuller & Co.	1 00 35
Two kalsomine hrushes—Whittier, Fuller & Co.	6 50
Two kalsomine brushes—Whittier, Fuller & Co.  Ten gallons boiled oil—Whittier, Fuller & Co.	7 15
Ten gallons turpentine—Whittier, Fuller & Co	5 75
Five gallons alcohol—Whittier, Fuller & Co	11 50
Two cases machine oil, 15 gallons—Whittier, Fuller & Co.	9 75
Cartage on same—Whittier, Fuller & Co.	50

Six ebony knobs—The John Stock Sons Six cases Starlight oil—Goldberg, Bowen & Co. Freight on same—Goldberg, Bowen & Co.	\$1.50
Wreight on same-Goldberg Rowen & Co.	13 50 95
One 8-foot stepladder—Farmers Union Cutting six and one half cords wood—Frank Higuera	3 20
Cutting six and one half cords wood—Frank Higuera	13 00
Seven days' labor, painting—W. T. Maynard Five days' labor, painting—W. T. Maynard Four paint brushes—Farmers Union	8 00 24 50
Five days' labor, painting—W. T. Maynard	17 50
Four paint brushes—Farmers Union	8 00
Two Adams brushes—Farmers Union Two hundred pounds white lead—Farmers Union Five gallons boiled oil—Farmers Union	2 50
Two nundred pounds white lead—rarmers Union	12 50 3 88
Turpentine	1 12
Turpentine Three bundles shingles—Santa Clara Valley Mill and Lumber Co. Mirror for photo use—H. A. Mathews. Eight hundred feet redwood—Santa Clara Valley Mill and Lumber Co.	1 50
Mirror for photo use—H. A. Mathews	75
Seventy-five feet coder—Sente Clara Valley Mill and Lumber Co	28 00 6 00
Seventy-five feet cedar—Santa Clara Valley Mill and Lumber Co.  Two railroad lanterns—H. A. Mathews One third red glass for same—H. A. Mathews	2 00
One third red glass for same—H. A. Mathews	3 00
Four days' labor—Robt. BennettFive pounds quicksilver—Justinian Caire	12 00
Roy for same—Justinian Caire	5 50 20
Box for same—Justinian Caire One gross large screws—The John Stock Sons Six sheets zinc—The John Stock Sons Eight pounds bronze metal—Wight & Branham	2 00
Six sheets zinc—The John Stock Sons.	8 57
Eight pounds bronze metal—Wight & Branham	3 20
Twelve dozen lantern slide plates—S. C. Partridge	5 60 7 80
Box for same—S. C. Partridge	15
Two dozen ferro plates—S. C. Partridge	2 00
Nine rubber developing trays—S. C. Partridge	25 20
Three porcelain trave_S C Partridge	6 55 6 50
Ten pounds sulphite of soda—S. C. Partridge	5 00
Eight pounds bronze metal—wight & Branham Labor on same—Wight & Branham Twelve dozen lantern slide plates—S. C. Partridge Box for same—S. C. Partridge. Two dozen ferro plates—S. C. Partridge. Nine rubber developing trays—S. C. Partridge. Eight glass graduates—S. C. Partridge. Three porcelain trays—S. C. Partridge. Ten pounds sulphite of soda—S. C. Partridge. Twenty ounces pyrogallic acid—S. C. Partridge. One gallon Atwood's alcohol—S. C. Partridge Boxing same—S. C. Partridge	8 00
One gallon Atwood's alcohol—S. C. Partridge	1 95
Enlarging conies from negatives—I W Tahar	25 00
Freight and expressage—Farmers Union	43 75
One gallon Atwood's alcohol—S. C. Partridge Boxing same—S. C. Partridge Enlarging copies from negatives—I. W. Taber Freight and expressage—Farmers Union. Freight and expressage—Mount Hamilton Stage Co. Telegrams—Harvard University Telegrams—Western Union Telegraph Co. Telegrams—Sunset Telephone Co. Forty gallons machine oil—Whittier, Fuller & Co. Cartage on same—Whittier, Fuller & Co. One barrel Prince's metallic—Whittier, Fuller & Co. Cartage on same—Whittier, Fuller & Co. Ten gallons turpentine—Whittier, Fuller & Co. Cartage on same—Whittier, Fuller & Co. Cartage on same—Whittier, Fuller & Co. Cartage on same—Whittier, Fuller & Co.	7 55
Telegrams—Harvard University	12 50
Telegrams— western Union Telegraph Co	1 74 90
Forty gallons machine oil—Whittier, Fuller & Co.	26 00
Cartage on same—Whittier, Fuller & Co.	25
Forty-nine and seven tenths gallons linseed oil—Whittier, Fuller & Co	33 55
Cartage on same—Whittier Fuller & Co.	6 00 50
Ten gallons turpentine—Whittier, Fuller & Co.	5 75
Cartage on same—Whittier, Fuller & Co. Four Adams brushes—Geo. B. McKee & Co. Indelible pencil and ink—Farmers Union	25
Four Adams brushes—Geo. B. McKee & Co.	5 50
Mouse tran—Farmers Union	50 10
Mouse trap—Farmers Union.  Three and one third dozen sandpaper—Farmers Union One dozen penholders—Farmers Union	50
One dozen penholders—Farmers Union	15
Two dozen wicks—Farmers Union  Four and one sixth dozen chimneys—Farmers Union  Two dozen lantern globes—Farmers Union One hundred pounds white lead—Farmers Union  Two hundred pounds white lead—Farmers Union  Twenty-five pounds French zinc—Farmers Union  Two hundred pounds white lead—Farmers Union  Tan gallons beiled oil—Farmers Union	1 00
Two dozen lantern globes—Karmers Union	5 21 2 50
One hundred pounds white lead—Farmers Union	6 25
Two hundred pounds white lead—Farmers Union	12 50
Twenty-five pounds French zinc—Farmers Union	3 25 12 50
Ten gallons boiled oil—Farmers Union	7 75
One gallon japan—Farmers Union.	i 75
One gallon japan—Farmers Union	2 50
One paint brush—Farmers Union	1 75 4 00
Four hundred pounds white lead—Farmers Union	25 00
Six barrels cement—Farmers Union	27 00
Six barrels cement—Farmers Union	45 50
Cutting twenty-two cords wood—Frank Higuera	44 00 60 00
Gulching and hauling wood—Frank Higuera	53 00
Gulching and hauling wood—Frank Higuera Fourteen and one half days' labor in July—Frank Higuera	29 00
Twenty-six days' labor in August—Frank Higuera	52 00
Twenty-six days' labor in September—Chris. Shilling	52 00

Don't commence the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of	440 50
Brad cap record—Payot, Upham & Co	<b>\$18 50</b>
Three reams manilla paper—Pavot, Upham & Co.	8 40
One ad. file—Payot, Upham & Co. Six record books—Payot, Upham & Co. Sixty-two pieces black cloth—Samuel C. Partridge Five plate-holders—Samuel C. Partridge	94
One and the Land Dent III to the	
Six record books—Payot, Upham & Co	6 00
Sixty-two pieces black cloth—Samuel C. Partridge	15 50
Five plate holders Samuel C. Partridge	9 25.
m-la - in language Daile Daile Daile	
Twelve pairs brass butts—Davis & Co.  Eight dozen brass screws—Davis & Co.  Eight pairs brass hinges—Davis & Co.	1 00
Eight dozen brass screws—Davis & Co	35
Fight pairs bress hinges Davis & Co	80·
Eight pairs brass inners—Davis & OU.	
Ten pairs blind flaps—Davis & Co.	60
Ten dozen brass screws—Davis & Co.	40.
Ten pairs blind flaps—Davis & Co.  Ten dozen brass screws—Davis & Co.  One thousand eight hundred and sixty-three feet lumber—Santa Clara Valley	
One thousand eight hundred and sixty-three feet fumber—Santa Clara vaney	
Mill and Lumber Co.	53 00
Mill and Lumber Co. Ten barrels cement—Farmers Union	45 00
Postage stamps—S. W. Burnham One hundred pounds metallic paint—Farmers Union Six pounds twine—Farmers Union Leather skirtings—Farmers Union	
rostage stamps—s. w. burnnam	50 00
One hundred pounds metallic paint—Farmers Union	3 00
Six pounds twine—Farmers Union	1 20
Lasthan divitings Damaga Union	
Leather skirtings—Farmers Union	4 40
	8 00
One 2-inch brush—Farmers Union	35
One 2-inch brush—Farmers Union Two pounds chrome yellow—Farmers Union	
1 wo pounds chrome yenow—Farmers Offich	50
Two pounds B. sienna—Farmers Union	40
Ten gallons hoiled oil—Farmers Union	7 75
Fifty named motallic noint Dommon Union	2 00
rity pounds metanic paint—rarmers Union	
One dozen coat hooks—Farmers Union	25
Two pounds B. sienna—Farmers Union Ten gallons boiled oil—Farmers Union Fifty pounds metallic paint—Farmers Union One dozen coat hooks—Farmers Union Half dozen ax handles—Farmers Union Three grap books—Farmers Union	1 75.
The communication of the Communication	
	3 00
Eleven cubic yards sand—L. Bernal Five and a half cubic yards sand—L. Bernal	44 00
Five and a half cubic yards sand—I. Bernal	22 00
One lead alate with J. Donnell	
One load state rock—L. Bernal	1 00
Five and a half cubic vards sand—L. Bernal	22 00
Five and a half cubic words sand_I. Rernal	22 00
Tive and a mail cubic yards sand—I. Demai	
One load slate rock—L. Bernal  Five and a half cubic yards sand—L. Bernal	22 00 ₋
Hauling from San José—L. Bernal	20 08
Hauling from San José I Bornal	12 51
Training nom ban Jose—Li, Beinai	
Hauling from San Jose—L. Bernal	9 60
Hauling from San José—L. Bernal	12 26
Hauling from San José I Roynel	48
Hauling from San José—L. Bernal Hauling from San José—L. Bernal Hauling from San José—L. Bernal Hauling from San José—L. Bernal Hauling from San José—L. Bernal Hauling from San José—L. Bernal One double team three nights—L. F. Fansworth	
Une double team three nights—L. F. Farnsworth	3 00
Fifty pounds waste—Union Iron Works Ten dozen Seed plates—Samuel C. Partridge. Five hundred feet lumber—Santa Clara Valley Mill and Lumber Co. One P. C. diary—Payot, Upham & Co. Hauling three and a half cords wood—F. Higuera. Five hundred letter headings—C. A. Murdock & Co.	7 00
Tan dozan Sand plates Samuel C Partridge	24 15
Ten dozen seed plates—Samuel C. Fartridge	
Five hundred feet lumber—Santa Clara Valley Mill and Lumber Co.	10 00
One P. C. diary—Payot. Upham & Co.	2 50
Hauling three and a half goods wood F Higgs we	7 00
Hadring three and a nair cords wood—F. Higuera	
Five hundred letter headings—C. A. Murdock & Co.	2 50
Glass pens—Draper Manufacturing Co.  One pair singletrees—W. T. Adel.  Forty pounds wire finishing nails—Davis & Co.  Thirty papers wire brads—Davis & Co.  Thirty-one gross screws—Davis & Co.  One quarter gross clamps—Davis & Co.	2 00
One pair cinciletrace W T Adel	3 50
One pair singletrees—w. 1. Adel	
Forty pounds were finishing nails—Davis & Co.	2 90
Thirty papers wire brads—Davis & Co.	2 50
Thinky and anger comme. David & Co.	10 40
infry-one gross screws—Davis & Co.	
One quarter gross clamps—Davis & Co	45
One vise—Davis & Co. One wrench—Davis & Co. Hauling from San José—L. Bernal	1 25
One visco Baris & Oc	40-
One wrench—Davis & Co.	
Hauling from San José—L. Bernal	9 94
One dozen cup'd turns—Davis & Co.  Three fourths dozen mortise bolts—Davis & Co.	2 75
Three fourths dozen mortige helts. Devis & (1)	2 25
Three fourths dozen mortise poils—Davis & Co.	
Three sets costers	2 25
Six dozen Seed plates—S. C. Partridge Telegram—Western Union Telegraph Co. One hatchet—Farmers Union	4 00
Talamana Washing Injan (Palamana)	
Telegram—western Union Telegraph Co.	35.
One hatchet—Farmers Union	75
Oxalic acid—Farmers Union	35.
Oxalic acid— Faillers Union	
Two brushes—Farmers Union	10
Two brushes—Farmers Union  One half dozen 8-ounce tacks—Farmers Union	20.
Three thousand silver prints of eclipse. W R Tyler	150 00
Three thousand silver prints of eclipse—W. B. Tyler  Cartage and boxing on same—W. B. Tyler  Two thousand artotypes of plates A and B—Britton & Rey	
Cartage and poxing on same—w. B. Tyler	1 50
Two thousand artotypes of plates A and B—Britton & Rev	24 00
One thousand artotypes of Professor Schecharle's drawings Rritton & Pay	12 00·
One thousand artotypes of Professor Schaeberle's drawings—Britton & Rey One thousand photo-lithographs of diagram plates—Britton & Rey	
one mousand photo-inthographs of diagram plates—Britton & Rey	12 50
One thousand photo-lithographs of diagram plates—Britton & Key	12 50·
Two dozen stripping plates Britton & Pay	5 45
Two dozen suithfulk histes-Directi & tel	
Inirty sand sacksL. Bernal	2 00
Hauling lumber from San José—L. Bernal	22 36
Two dozen stripping plates—Britton & Rey Thirty sand sacks—L. Bernal Hauling lumber from San José—L. Bernal Hauling lumber and paint from San José—L. Bernal	17 82
Tranning rumber and battle from Dati 1006-Tr. Deligit	
Hauling wagon, etc., from San José—L. Bernal One 2½-inch C valve—Farmers Union	15 11
One 21-inch C valve—Farmers Union	5 00∙
(1)	on.

One bar Castile soap—Farmers Union———————————————————————————————————	<b>\$</b> 0 50
Fifteen gallons raw linseed oil—Farmers Union	11 25
Five gallons boiled linseed oil—Farmers Union	3 88
One hundred packages matches—Farmers Union	3 00
Three thousand and sixty-two feet lumber—Santa Clara Valley Mill and Lum-	
	80 83
Ten bundles shingles—Santa Clara Valley Mill and Lumber Co.  Four pieces lumber—Santa Clara Valley Mill and Lumber Co.	5 00
Four pieces lumber—Santa Clara Valley Mill and Lumber Co	1 68
Two pieces lumber—Santa Clara Valley Mill and Lumber Co.  Five pieces lumber—Santa Clara Valley Mill and Lumber Co.  Eighteen pieces lumber—Santa Clara Valley Mill and Lumber Co.  Nine pieces lumber—Santa Clara Valley Mill and Lumber Co.  Three windows—Santa Clara Valley Mill and Lumber Co.  One farm gear with rack had and brake—Deers Implement Co.	1 26
Five pieces lumber—Santa Clara Valley Mill and Lumber Co.	4 20
Eighteen pieces lumber—Santa Clara Valley Mill and Lumber Co.	4 28
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Two dozen B. P. mattresses —Justinian Caire Two files—Justinian Caire	90 25
Ivon nier—Justinian Caire Iron wire—Justinian Caire Fifty feet rubber tube—Justinian Caire One dozen test tubes—Justinian Caire One fourth pound C. P. borax—Justinian Caire One pound tinfoil—Justinian Caire Two ounces nitrate of potash—Justinian Caire Four ounces iodide of potash—Justinian Caire One dozen twentie—Justinian Caire One dozen twentie—Justinian Caire	25
Fifty feet rubber tube—Justinian Caire	2 00
One dozen test tubes—Justinian Caire	40
One nound tinfoil—Justinian Caire	38 27 25 80
Two ounces nitrate of potash—Justinian Caire	25
Four ounces iodide of potash—Justinian Caire	80
One ounce oxal. nickel—Justinian Caire	65
One dozen tumeric—Justinian Caire	45 1 12
The rounds ammonia—Justinian Caire One half pound ammonia carb.—Justinian Caire One half pound caustic potash—Justinian Caire One pound ammonia chloride—Justinian Caire One fourth pound barium chloride—Justinian Caire One courth pound barium chloride—Justinian Caire	30
One half pound caustic potash—Justinian Caire	40
One pound ammonia chloride—Justinian Caire	54
One fourth pound barium chloride—Justinian Caire	15
One ounce chlor, platinum—Justinian Caire	100
One ounce molybdate ammonia—Justinian Caire	65
Six clay triangles—Justinian Caire	60
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Emery—Justinian Caire	
Two Arkansas slips—Justinian Caire	1 30
Two hundred pieces cut plate glass—Justinian Caire	4 50
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Three cylinders One steel bar	5 79	
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One phonometer, including candle, balance, and four Lithby screws.	15 10 0	
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954s 3d at 24½ cents per shilling	\$233 79	
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	25
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Berliner Astronom Tahrbuch, 1890–91 M. 21.60	
Porto 2.00	
M. 23.60	5 <b>74</b>
One hank sash cord—Osborn & Alexander	85
Three rosewood handles—Osborn & Alexander	75 95
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One glaunated spirit level—a. Hetz & Oo.	1 00
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Nineteen yards Duplex drawing paper—E. Denny & Co.	1 20
Ten yards Paragon drawing paper—E. Denny & Co.	8 85
One roll tracing cloth—E. Denny & Co.	7 50
One half dozen Hunter's axes—Osborn & Alexander	4 50
One half dozen ax handles—Osborn & Alexander One half dozen chalk lines—Osborn & Alexander	60
One half dozen chalk lines—Osborn & Alexander	60
One vise—Usborn & Alexander	50 65
One jeweier's naminer—Osborn & Alexander One pair outling plars—Osborn & Alexander	75
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Two sets circular stencils—C. A. Klinkner & Co.	5 00
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Thirty-three and one third hours clerical work—W. C. Allen	10 00
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Repairing Weather vane—Dalziei & Moller	4 50
One incondescent burners—California Electrical Works	2 50
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Expressage—Patterson & Co	1 50
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Traveling expenses—Carl Rabe	25
Traveling expenses—Carl Rabe	25 25
Traveling expenses—Carl Rabe.	25 25
One brush—Buchanan Bros.	2 00
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One pound carbolic acid—Justinian Caire	
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Five kr. kalmice bromat         16.50           Two kr. kalmice jodative         50.00           Five kr. antimon metall         7.50           Five kr. tartar stibiat cryst         12.50           One half kr. magnes metall hand         24.00           Twenty kr. magnes sulfuric pur         3.00           Five kr. buymn chlorat pur         2.50           One kr. yoduce resublim         30.00           One case acid acetic, pure         46.00           Ten kr. natr borar puriss         6.00           Twenty kr. natr carbon anty         3.60           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. bismuth metallic anf         20.00           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat mass         1.20           One kr. plumb oxydat memm         60           Five kr. plumb by peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. hydr bichloral coross subl         30.00           Three kr. cadmium carbo	Ten Kr. acid arsenicos	3.40	
Two kr. kalmice jodative         50.00           Five kr. tartar stibiat cryst         12.50           One half kr. magnes metall hand         24.00           Twenty kr. magnes sulfuric pur         3.00           Five kr. buymn chlorat pur         2.50           One kr. yoduce resublim         30.00           One case acid acetic, pure         46.00           Ten kr. natr bicarb puriss         6.00           Twenty kr. natr carbon anty         3.60           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Twe kr. plumb oxydat mass         1.20           One kr. plumb oxydat mass         1.20           One kr. plumb oxydat trubr pp         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         25.00           Five kr. stunum chlorat cryst         30.00           Five kr. hydr bichloral coross subl         30.00           Three kr.	Twenty kr. calcium fleo	. 2.20 16.50	
Five kr. tartar stibiat cryst.         12.50           One half kr. magnes metall hand         24.00           Twenty kr. magnes sulfuric pur         3.00           Five kr. buymn chlorat pur         2.50           One kr. yoduce resublim         30.00           One case acid acetic, pure         46.00           Ten kr. natr bicarb puriss         6.00           Twenty kr. natr carbon anty         3.60           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. bismuth metallic anf         20.00           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb boxydat mass         1.20           One kr. plumb boxydat memm         .60           Five kr. plumb boxydat fur         14.00           Three kr. hydr oxydat rubr pp         24.00           Five kr. stibium chlorat cryst         22.50           Five kr. stydr bichloral coross subl         30.00           Three kr. cape carbonic pur         6.90           Five kr. hydr bichloral coross subl         30.00           O	Two kr. kalmice jodative	50.00	
One half kr. magnes metall hand         24.00           Twenty kr. magnes sulfuric pur         3.00           Five kr. buymn chlorat pur         2.50           One kr. yoduce resublim         30.00           One case acid acetic, pure         46.00           Ten kr. natr bicarb puriss         6.00           Twenty kr. natr carbon anty         3.60           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. bismuth carbonic anf         18.75           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb oxydat memm         .60           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five kr. h	Five kr. antimon metall	. 7.50	
One kr. yoduce resubilm         30.00           One case acid acetic, pure         46.00           Ten kr. natr bicarb puriss         6.00           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. subatric pur         18.75           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb oxydat memm         60           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr, plumb carbonic pur         12.50           Five kr, stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five kr. hydr bichloral coross subl         30.00           Three kr. cadmium carbonic puriss         11.00           One kr. cadmium carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedu	One half kr magnes metall hand	. 12.50 24.00	
One kr. yoduce resubilm         30.00           One case acid acetic, pure         46.00           Ten kr. natr bicarb puriss         6.00           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. subatric pur         18.75           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb oxydat memm         60           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr, plumb carbonic pur         12.50           Five kr, stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five kr. hydr bichloral coross subl         30.00           Three kr. cadmium carbonic puriss         11.00           One kr. cadmium carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedu	Twenty kr. magnes sulfuric pur	3.00	
Ten kr. natr bicarb puriss         6.00           Twenty kr. natr carbon anty         3.60           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No.1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb peroxydat memm         60           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five plumb cistric         5.00           One kr. cadmium carbonic puriss         11.00           One kr. cadmium carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedum carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedum chloratum </td <td>Five kr. buymn chlorat pur</td> <td>2.50</td> <td></td>	Five kr. buymn chlorat pur	2.50	
Ten kr. natr bicarb puriss         6.00           Twenty kr. natr carbon anty         3.60           Twenty kr. natr bochromac tasto         17.20           One kr. bismuth metallic anf         20.00           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No.1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb peroxydat memm         60           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five plumb cistric         5.00           One kr. cadmium carbonic puriss         11.00           One kr. cadmium carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedum carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedum chloratum </td <td>One case acid acetic, pure</td> <td>46.00</td> <td></td>	One case acid acetic, pure	46.00	
One kr. bismuth metallic anf.         22.00           One kr. bismuth carbonic anf.         18.75           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass.         1.20           One kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five plumb cistric         5.00           One kr. cadmium carbonic puriss         11.00           One kr. cadmium carbonic puriss         11.00           One kr. nieedum chloratum         6.40           Five kr. nieedum carbonic         4.25           Two kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. ferr sesquichlorat crist         5.60 <t< td=""><td>Ten kr. natr bicarb puriss</td><td><b>. 6.</b>00</td><td></td></t<>	Ten kr. natr bicarb puriss	<b>. 6.</b> 00	
One kr. bismuth metallic anf.         22.00           One kr. bismuth carbonic anf.         18.75           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass.         1.20           One kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five plumb cistric         5.00           One kr. cadmium carbonic puriss         11.00           One kr. cadmium carbonic puriss         11.00           One kr. nieedum chloratum         6.40           Five kr. nieedum carbonic         4.25           Two kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. ferr sesquichlorat crist         5.60 <t< td=""><td>Twenty kr. natr carbon anty</td><td>- 3.60 17.20</td><td></td></t<>	Twenty kr. natr carbon anty	- 3.60 17.20	
One kr. bismuth carbonic anf         18.75           One kr. subatric pur         16.00           Twelve and one half kr. capr sulfur techn         7.50           One kr. lacmus No. 1         8.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb oxydat memm         .60           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five kr. cupe carbonic pur         5.00           One kr. cadmium carbonic puriss         11.00           One kr. cadmium carbonic puriss         18.00           One kr. nieedum carbonic         4.25           Two kr. nieedum carbonic         4.25           Two kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. natr acetic pur         6.50           One half	One kr. bismuth metallic anf.	20.00	
One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb peroxydat memm         80           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. plumb carbonic pur         15.00           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five plumb cistric         5.00           One kr. cadmium carbonic puriss         11.00           One kr. caboltucee carbonic         18.00           One kr. nieedum carbonic         4.25           Two kr. nieedum carbonic         4.25           Two kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. natr acetic pur         6.50           One half kr. chromine metallic         7.00           Fifty gr. selemim         9.00	One kr. bismuth carbonic anf.	. 18.75	
One kr. lacmus No. 1         3.20           Twenty kr. plumb oxydat technic         9.20           Two kr. plumb oxydat mass         1.20           One kr. plumb peroxydat memm         80           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. plumb carbonic pur         15.00           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five plumb cistric         5.00           One kr. cadmium carbonic puriss         11.00           One kr. caboltucee carbonic         18.00           One kr. nieedum carbonic         4.25           Two kr. nieedum carbonic         4.25           Two kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. natr acetic pur         6.50           One half kr. chromine metallic         7.00           Fifty gr. selemim         9.00	Twelve and one half kr. canr sulfur techn	. 16.00 7.50	
Two kr. plumb oxydat mass       1.20         One kr. plumb oxydat memm       .60         Five kr. plumb peroxydat fur       14.00         Three kr. hydr oxydat rubr pp.       24.00         Five kr. plumb carbonic pur       12.50         Five kr. stibium chlorat cryst       22.50         Ten kr. staunum chlorat cryst       15.00         Five kr. hydr bichloral coross subl       30.00         Three kr. cupe carbonic pur       6.90         Five plumb cistric       5.00         One kr. cadedium carbonic puriss       14.00         One kr. caboltucee carbonic       18.00         One kr. nieedum carbonic       4.25         Two kr. nieedum chloratum       6.40         Five kr. nieedum sulfuric ammon       7.00         Ten kr. ferr sesquichlorat crist       5.60         Ten kr. natr acetic pur       6.50         One half kr. chromine metallic       7.00         Fifty gr. selemim       9.00	One kr. lacmus No. 1	. 8.20	
One kr. plumb oxydat memm         80           Five kr. plumb peroxydat fur         14.00           Three kr. hydr oxydat rubr pp.         24.00           Five kr. plumb carbonic pur         12.50           Five kr. stibium chlorat cryst         22.50           Ten kr. staunum chlorat cryst         15.00           Five kr. hydr bichloral coross subl         30.00           Three kr. cupe carbonic pur         6.90           Five plumb cistric         5.00           One kr. cadmium carbonic puriss         11.00           One kr. caboltucee carbonic         18.00           One kr. nieedum carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. natr acetic pur         6.50           One half kr. chromine metallic         7.00           Fifty gr. selemim         9.00	Two kr plumb oxydat technic	9.20	
Three kr. hydr oxydat rubr pp.       24.00         Five kr. plumb carbonic pur       12.50         Five kr. stibium chlorat cryst       22.50         Ten kr. staunum chlorat cryst       15.00         Five kr. hydr bichloral coross subl       30.00         Three kr. cupe carbonic pur       6.90         Five plumb cistric       5.00         One kr. cadednium carbonic puriss       14.00         One kr. caboltucee carbonic       18.00         One kr. nieedum carbonic       4.25         Two kr. nieedum chloratum       6.40         Five kr. nieedum sulfuric ammon       7.00         Ten kr. ferr sesquichlorat crist       5.60         Ten kr. natr acetic pur       6.50         One half kr. chromine metallic       7.00         Fifty gr. selemim       9.00	One kr. plumb oxydat mass	60	
Tree kr. statunum chlorat cryst	Five kr. plumb peroxydat fur	14.00	
Tree kr. statunum chlorat cryst	Three kr. hydr oxydat rubr pp.	. 24.00 12.50	
Five kr. hydr bichloral coross subl       30.00         Three kr. cupe carbonic pur       6.90         Five plumb cistric       5.00         One kr. cadmium carbonic puriss       11.00         One kr. caboltucee carbonic       18.00         One kr. nieedum carbonic       4.25         Two kr. nieedum chloratum       6.40         Five kr. nieedum sulfuric ammon       7.00         Ten kr. ferr sesquichlorat crist       5.60         Ten kr. natr acetic pur       6.50         One half kr. chromine metallic       7.00         Fifty gr. selemim       9.00	Five Kr. Sublum chioral cryst	. 22.00	
Three kr. cupe carbonic pur       6.90         Five plumb cistric       5.00         One kr. cadmium carbonic puriss       14.00         One kr. caboltucee carbonic       18.00         One kr. nieedum carbonic       4.25         Two kr. nieedum chloratum       6.40         Five kr. nieedum sulfuric ammon       7.00         Ten kr. ferr sesquichlorat crist       5.60         Ten kr. natr acetic pur       6.50         One half kr. chromine metallic       7.00         Fifty gr. selemim       9.00	Ten kr. staunum chlorat crsyt	<b>15.0</b> 0	
Five plumb cistric       5.00         One kr. cadmium carbonic puriss       14.00         One kr. caboltucee carbonic       18.00         One kr. nieedum carbonic       4.25         Two kr. nieedum chloratum       6.40         Five kr. nieedum sulfuric ammon       7.00         Ten kr. ferr sesquichlorat crist       5.60         Ten kr. natr acetic pur       6.50         One half kr. chromine metallic       7.00         Fifty gr. selemim       9.00			
One kr. caboltucee carbonic         18.00           One kr. nieedum carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. natr acetic pur         6.50           One half kr. chromine metallic         7.00           Fifty gr. selemim         9.00	Five plumb cistric	_ 5.00	
One kr. nieedum carbonic         4.25           Two kr. nieedum chloratum         6.40           Five kr. nieedum sulfuric ammon         7.00           Ten kr. ferr sesquichlorat crist         5.60           Ten kr. natr acetic pur         6.50           One half kr. chromine metallic         7.00           Fifty gr. selemim         9.00			
Two kr. nieedum chloratum       6.40         Five kr. nieedum sulfuric ammon       7.00         Ten kr. ferr sesquichlorat crist       5.60         Ten kr. natr acetic pur       6.50         One half kr. chromine metallic       7.00         Fifty gr. selemim       9.00	One kr. nieedum carbonic	4.25	**
Ten kr. ferr sesquichlorat crist       5.60         Ten kr. natr acetic pur       6.50         One half kr. chromine metallic       7.00         Fifty gr. selemim       9.00	Two kr. nieedum chloratum	6.40	
Ten kr. natr acetic pur 6.50 One half kr. chromine metallic 7.00 Fifty gr. selemim 9.00	Five Kr. nieeaum sulfuric ammon	- 7.00 5.60	
One half kr. chromine metallic 7.00 Fifty gr. selemim 9.00	Ten kr. natr acetic nur	6.50	
One kr. cadmium 5.50	One half kr. chromine metallic	7.00	
	One kr. cadmium	. 5.50	•

Five kr. phosphar mang	M.21.00	
Five kr. phosphar amorph	30.00	
One helf by keleium metallic	18.00	
Casing	94.60	
Casing Consul's certificate	12.60	
M.	1,042.50	\$250 00
One carboy nitric acid—Garden City Chemical Works One carboy muriatic acid—Garden City Chemical Works		10 43 5 04
Two carboys muriatic acid—Garden City Chemical Works		12 80
Inguirongo Conton Inguirongo Co		41 31
Five tins caustic soda One copper distilling apparatus—Eimer & Amend Three hundred and twenty-two pounds aqua ammonia—San Francisco Expressage—Patterson & Co. Seven thousand nine hundred cubic feet gas—Oakland Gas Co. Customs fees seven cases chemicals—G. W. Reed State toll on goods from Hamburg—William Wolff & Co. Freight—Southern Pacific Co.	•••••	5 00
One copper distilling apparatus—Eimer & Amend		25 00
Three hundred and twenty-two pounds aqua ammonia—San Francisco	Gas Co.	25 75
Expressage—Patterson & Co.		5 50 19 75
Customs fees seven cases chemicals—G. W. Reed		4 00
State toll on goods from Hamburg-William Wolff & Co.		10
Freight—Southern Pacific Co.		3 70
Freight—Southern Pacific Co.  Expressage—Patterson & Co.  Two hundred gallons Extra Star oil—Whittier, Fuller & Co.  Bill of Franz Schilling, in marks; total in dollars and cents: Sixty-six stg. retorten, 600 gr.		5 00
Two hundred gallons Extra Star oil—Whittier, Fuller & Co.	Morko	52 00
Sixty-six stor retorten 500 or	25.08	
Thirty-four stg. retorten, 500 gr.	12.92	
Fifty-eight stg. retorten, 250 gr.	17.40	
Forty-two stg. retorten, 250 gr.	12.60	
Forty sta retorten 100 ar	18.90 8.00	
Thirty-four stg. retorten, 500 gr.  Fifty-eight stg. retorten, 250 gr.  Forty-two stg. retorten, 250 gr.  One hundred and five stg. retorten, 60 gr.  Forty stg. retorten, 100 gr.  One hundred and five stg. rochflaschen, 1,000 gr.	26.25	
	6.05	
Twelve stg. fraklonspollen, 15 gr.	1.44	
Twelve stg. fraklonspollen, 15 gr. Ten stg. fraklonspollen, 30 gr.	1.40	
Eleven stg. fraklonspollen, 60 gr.	1.76 2.00	
Eleven sto fraklonanollan 250 or	3.85	
Ten stg. fraklonspollen, 500 gr.	5.20	
Eleven stg. fraklonspollen, 60 gr. Ten stg. fraklonspollen, 100 gr. Eleven stg. fraklonspollen, 250 gr. Ten stg. fraklonspollen, 500 gr. Ten stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 750 gr. Twelve stg. fraklonspollen, 750 gr.	6.50	
Twelve stg. fraklonspollen, 1,000 gr.	9.00	
One thousand stg. reagirglaser One hundred stg. reagirglaser	20.00	
Two hundred stg. reagirglaser	3.00 4.40	
One thousand stg. reaginglaser	18.00	
Fifty stg. reagirglaser Fifty stg. praparetenglsier	1.75	
Fifty stg. praparetenglsier	.60	
Fifty stg. praparetenglsier	.75 1.00	
Fifty stg. praparetenglsier	1.40	
Sixteen stg. frichter, 25 cm.	15.20	
Sixteen stg. frichter, 25 cm. Fifteen stg. frichter, 21 cm.	6.75	
Ten stg. frichter, 5 cm.	7.00	
One hundred stg. kochplerchen, 500 gr.	$\frac{18.00}{6.60}$	
One hundred and ten stg. kochplerchen, 100 gr.	5.50	
Ten stg. frichter, 5 cm. One hundred stg. kochplerchen, 500 gr. One hundred and ten stg. kochplerchen, 100 gr. One hundred and ten stg. kochplerchen, 30 gr. Seventy-five stg. kugchiren schmerchn	15.00	
One hundred stg. kochflaschen, 250 gr. Six stg. sicherheitsrohren Twelve stg. sicherheitsrohren	10.00	
Six stg. sicherheitsrohren	3.00	
Twelve stg. sicherheitsrohren	3.00	
Twelve stg. sicherheitsrohren Twenty-six stg. sicherheitsrohren	3.00 4.68	
Twenty-six stg. sicherheitsrohren	3.90	
Six stg. sicherheitsrohren	2.10	
Four stg. spritzflaschen, 500 gr.	4.00	
One stg. spritzflaschen, 1,000 gr.	1.75	
Fifty stg. kugelrohren m. 2 kugeln Twenty-five stg. kugelrohren m. 1 kugeln	15.00 5.00	
Five stg. trichter. No. 246	2.25	
Twenty-six stg. trichter, No. 624	6.50	
Five stg. trichter, No. 246 Twenty-six stg. trichter, No. 624 Two hundred and fifteen stg. trichter, No. 624	21.50	
I WO SEE, CVIIIIGET III. K FODI	.64	
One stg. cylinder m. Kropf One stg. cylinder m. Kropf One stg. cylinder m. Kropf	.40 .52	
One stg. cylinder m. Kropf	.62	
Fifty stg. trichter, No. 624	3.00	
Fifty stg. trichter, No. 624. Twenty-two stg. trichter, No. 624.	7.92	

Fifty-five stg. trichter, No. 624 One hundred and five stg. trichter, No. 624 Fifteen stg. retorten m. sdf, 2,000 gr., No. 629. Ten stg. retorten, m. sdf, 1,000 gr., No. 629. Two hundred stg. trichter, No. 624 Six stg. trichter, No. 664. One stg. reagierglasergestell kirschl	M.11.00
Fifteen stg. retorten m. sdf. 2.000 gr No. 629	12.00
Ten stg. retorten, m. sdf, 1,000 gr., No. 629	5.50
Two hundred stg. trichter, No. 624	27.00
One stg. reagierglasergestell kirschl	1.00
One stg. reagierglasergestell kirschl One stg. reagierglasergestell mahagoniholz One stg. reagierglasergestell mahagoniholz	1.20
One stg. reagierglasergestell mahagoniholz.	1.50
One hundred and eight stg. kochflaschen, 200 gr.	$\frac{2.00}{9.72}$
Thirty stg. retorten, 100 gr.	16.50
Thirty stg. retorten, 100 gr. One hundred stg. Hoffmeister's schalschen	5.00
One hundred stg. glasthreinen	1.80
Twenty stg. retorten 100 or	19.20 4.00
Forty stg. kochflaschen, 200 gr. Twenty stg. retorten, 100 gr. Ten stg. Woulfsche flaschen, 150 gr.	4.25
Twenty-five stg. Woulfsche flaschen, 200 gr. Twenty-five stg. Woulfsche flaschen, 250 gr.	11.25
Twenty-five stg. Wouldsche flaschen, 250 gr.	12.50
Ten stg. Woulfsche flaschen, 500 gr. Six stg. Woulfsche flaschen, 1,000 gr. Two stg. Woulfsche flaschen, 1,500 gr. Two stg. Woulfsche flaschen, 2,000 gr.	7.00 5.40
Two stg. Woulfsche flaschen, 1,500 gr.	2.60
Two stg. Woulfsche flaschen, 2,000 gr. Two stg. Woulfsche flaschen, 150 gr. Two stg. Woulfsche flaschen, 200 gr. Two stg. Woulfsche flaschen, 250 gr. Two stg. Woulfsche flaschen, 250 gr.	3.00
Two stg. Woulfsche flaschen, 150 gr.	.80
Two stg. Wouldsche flaschen 250 gr.	.80 .90
Two stg. Woulfsche flaschen, 500 gr.	1 00
Three stg. Woulfsche flaschen	2.40
Two stg. Woulfsche flaschen	2.40
Two stg. Woulische flaschen Three stg. Woulische flaschen Two stg. Woulische flaschen Two stg. Woulische flaschen Eight stg. adklarflaschen, 2,000 gr. Three stg. cylinder m. Rand Two stg. cylinder m. Rand Two stg. cylinder m. Rand Two stg. cylinder m. Rand Two stg. cylinder m. Rand	3.00 8.80
Three stg. cylinder m. Rand	1.80
Two stg. cylinder m. Rand	.40
Two stg. cylinder m. Rand	.36
Thirty-two stg. retorten. No. 629	30.36 17.60
Forty-six stg. rollflaschen mit. Thirty-two stg. retorten, No. 629 Twelve stg. messkolben ohne, 200 cc.	4.20
Twenty-two stg. messkolben ohne, 20 cc. Twenty stg. messkolben ohne, 10 cc. Twelve stg. messkolben ohne, 5 cc. Twelve stg. messkolben ohne, 5 cc. Four stg. messkolben ohne. Sixty-two stg. rollflaschen in gen, 1,000 gr.	$\frac{3.30}{2.00}$
Twelve stg. messkolben ohne. 5 cc.	1.20
Four stg. messkolben ohne	1.20
Sixty-two stg. rollflaschen in gen, 1,000 gr.	23.56
Twenty-four stg. Kochnaschen, 5,000 gr	18.75 24.00
Twenty-five stg. kochflaschen, 3,000 gr. Twenty-four stg. apparate, No. 359 Fifty stg. filtrirflaschen, 750 gr. Twelve stg. filtrirflaschen, 1,000 gr.	35.00
Twelve stg. filtrirflaschen, 1,000 gr.	9.00
Nine stg. filtrirflaschen, 2,000 gr. One stg. mischcylinder, 500 cc. One stg. mischcylinder, 1,000 cc.	9.90
One stg. mischcylinder, 500 cc.	2.00 3.20
One stg. mischcylinder, 2,000 cc.	5.30
One stg. mischcylinder, 2,000 cc. Ten stg. kochfaschen, 2,000 gr.	4.80
Two stg. kochnaschen, 4,000 gr.	1.68
Twenty-five stg. trichter, 5 cm.  Thirty-five stg. trichter, 7 cm.	$\frac{1.75}{2.80}$
Fifty-six stg. trichter, 8 cm.	5.60
Fifty-six stg. trichter, 8 cm. Thirty-five stg. trichter, 10 cm.	4.72
Twenty stg. trichter, 13 cm.	$\frac{4.00}{22.50}$
Twenty-four ste, kochflaschen, 4.000 gr.	20.16
Ten stg. wageglaschen, No. 722, 10 gr.	2.80
Twenty-two stg. wageglaschen, No. 722, 20 gr.	6.60
Twenty-four stg. kochflaschen, 4,000 gr. Ten stg. wageglaschen, No. 722, 10 gr. Twenty-two stg. wageglaschen, No. 722, 20 gr. Twelve stg. wageglaschen, No. 722, 30 gr. Six stg. wageglaschen, No. 722, 50 gr. Seven stg. wageglaschen, No. 720.	4.20 2.40
Seven stg. wageglaschen. No. 720	2.80
Five stg. messkoiden mit stopsel, lou cc	1.00
Six stg. messkolben mit stopsel, 125 cc.	2.40
Three stg. messkolben mit stopsel, 250 cc.	2.10 2.25
Five stg. messkolben ohne, 250 cc	1.20
Ten stg. retorten, 100 gr.	2.00
Fifty-two ko. massive stabe	52.00
Two stg. rollflaschen in gen stpe, 500 gr	8.37 .76
Six stg. filtrirflaschen stark glase, 1,500 gr.	4.80
Fifty-six stg. filtrirflaschen, 750 gr.	28.00

Twelve stg. filtrirflaschen, 500 gr.	M.4.80
Fifty-one stg. filtriffaschen, 500 gr	30.60
()no star scholdertrichter 7 str	3.00
One stg. scheidertrichter, 3 str.	4.00
One stg. scheidertrichter, 3 str.  Two stg. apparate kipp gross.  One stg. cylinder, 1,000 cc.  One stg. cylinder, 2,000 cc.  One stg. cylinder, 10 cc.  Eighteen stg. vollpipetten, 1 cc.  Fifteen stg. vollpipetten, 2 cc.	11.00
One stee splinder 1000 se	
One stg. cylinder, 1,000 cc.	2.70
One stg. cylinder, 2,000 cc.	4.50
One stg. cylinder, 10 cc.	.45
Eighteen stg. vollpipetten, 1 cc.	1.80
Fifteen stg. vollnipetten, 2 cc.	1.80
Six stg vollpinetten 3 cc	.84
Fifteen stg. vollpipetten, 2 cc. Six stg. vollpipetten, 3 cc. Six stg. vollpipetten, 4 cc.	
Six stg. vonpipetten, 4 cc.	.90
Six stg. volipipetten, 5 cc.	.90
Six stg. vollpipetten, 5 cc. Twelve stg. vollpipetten, 10 cc. Six stg. vollpipetten, 15 cc.	2.16
Six stg. vollpipetten, 15 cc.	1.20
Five stg. vollpipetten, 20 cc.	1.25
Five stg. vollpipetten, 20 cc. Twelve stg. vollpipetten, 25 cc.	3.60
Giv ata wellnington 20 as	
Six stg. vollpipetten, 30 cc.	2.10
Six stg. vollpipetten, 40 cc.	2.40
Six stg. vollpipetten, 50 cc.	2.40
Three stg. vollpipetten, 75 cc.	1.27
Three stg. vollpinetten, 100 cc.	1.50
Three str vollninetten 150 cc	1.71
Three ster vollminetten 900 oc	2.25
Six stg. vollpipetten, 50 cc.  Three stg. vollpipetten, 75 cc.  Three stg. vollpipetten, 100 cc.  Three stg. vollpipetten, 160 cc.  Three stg. vollpipetten, 200 cc.  Two stg. gasmaschfluschen, 500 gr.  Three stg. gasmaschfluschen, 200 gr.  Three stg. gasmaschfluschen, 300 gr.  One stg. apparate incl pappkiote, No. 365.	
I wo sig. gasmascnnuschen, oor gr.	2.50
Inree stg. gasmaschfluschen, 200 gr.	3.30
Three stg. gasmaschfluschen, 300 gr.	3.30
One stg. apparate incl pappkiote, No. 365	2.15
One stg. apparate incl pappkiote. No. 868	1.10
One stg. apparate incl pappkiote, No. 368 One stg. Universal araometer One stg. araometer One stg. araometer One stg. araometer	2.00
One ster encompater	
One stg. araometer	.55
One stg. araometer	.65
Three stg. futterale One stg. graunnflasche m. thermon, 50 gr.	.30
One stg. graunnflasche m. thermon, 50 gr.	2.50
Ten stg. burettenschroimmer	4.75
Ten stg. burettenschroimmer. One stg. scheidertrichter cylinderf.	1.25
One stee schooldestwichten broadf	
One stg. scheidertrichter kugelf.	1.25
One sig. burette onne Hann, 20 cc.	.70
One stg. burette ohne Hahn, 25 cc. Three stg. burette ohne Hahn, 50½ cc. Two stg. burette ohne Hahn, WO½ cc.	8.90
Two stg. burette ohne Hahn, WO ₄ cc.	4.40
One satz burette ohne mit fuss One satz burette ohne mit fuss	5.00
One satz burette ohne mit fuss	7.00
Six s. messkolben, 50 ccm.	1.20
Worse a month of the 500 com	
Four s. messkolben, 500 ccm. Five s. messkolben, 1,000 ccm.	2.40
Five s. messkolden, 1,000 ccm.	4.00
Six s. messkolben, 1,000 ccm. mit stg.	6.60
Fifty s. sthrglaser, 2 cm.	3.50
Fifty s. sthrglaser, 3 cm.	4.00
One hundred's sthroleser 4 cm	10.00
One hundred and five a sthredger 5 cm	12.60
Six s. messkolben, 1,000 ccm. mit stg.  Fifty s. sthrglaser, 2 cm.  Fifty s. sthrglaser, 3 cm.  One hundred s. sthrglaser, 4 cm.  One hundred s. sthrglaser, 7 cm.  Fifty s. sthrglaser, 9 cm.	
One nundred s. storgiaser, 7 cm.	15.00
Fifty s. sthrglaser, 9 cm.  Twenty-five s. sthrglaser, 12 cm.  Ten s. sthrglaser, 15 cm.	10.00
Twenty-five s. sthrglaser, 12 cm.	7.50
Ten s. sthrglaser, 15 cm.	5.00
Six s. sthrglaser, 18 cm.	4.20
Four s. sthrglaser, 20 cm.	3.20
Three s. sthrglaser, 25 cm.	5.85
Three S. Staffaser, 20 Cm.	
One satz Hoffmann'sche apparate	15.00
One str. Hommann'sche apparate	7.50
One str. fudiometer	3.00
One str. burette, 50 ½ cc. One satz Hoffmann'sche apparate One stp. Hoffmann'sche apparate	2.00
One satz Hoffmann'sche apparate	20.00
One stn Hoffmann'sche apparate	9.00
One sup 120111111111 Solle apparate	
One sep. Hommann sche apparate	8.50
One stp. Hoffmann'sche apparate Twenty-five satze becherglaser, Nos. 1–8	37.50
riity ko. schrver schmeizbare rohren	140.00
Twenty satze becherglaser, Nos. 1–12.	60.00
Eleven satze becherglaser, Nos. 1–8	16.50
Six satze becherglaser, Nos. 1-16	28.50
Six satze becherglaser, Nos. 1-16	62.00
Woung garge hochoraleges Nos 110	
rour sauze bechergiaser, Nos. 1-10	19.00
Nineteen satz becherglaser, Nos. 1-10	38.00
Four satze becherglaser, Nos. 1–16. Nineteen satz becherglaser, Nos. 1–10. Thirty satze becherglaser, Nos. 1–8.	45.00
Thirty sts. retorten mit stpe, 1,000 gr.  Thirteen sts. retorten mit stpe, 2,000 gr.  Thirty, sus ets. retorten mit stpe, 2,000 gr.	16.50
Thirteen sts. retorten mit stpe. 2.000 gr.	10.40
Thirty five etc. notation mit etne 000 em	0.45

Minter of sector hash and seen Nov. 1.0	35 54 00	
Thirty-six satze becherglaser, Nos. 1-8	M.54.00 52.50	
Seventy satze becherglaser, Nos. 1-5. One hundred and seventy satze becherglaser, Nos. 1-3.	64.60	
Nine stg. acklarflaschen, 1,000 gr.	6.75	
Eleven stg. exikatoren	19.80	
Nine stg. acklarflaschen, 1,000 gr.  Eleven stg. exikatoren  Eighteen stg. vorstosse die form, 20 cm. lg.	7.20	
Fourteen stg. vorstosse die form, 30 cm. ig.	7.00	
Fourteen stg. vorstosse die form, 40 cm. lg.  Eight stg. rollflaschen m. dekelote, 500 gr.	2.80	
Thirty-five satze becherglaser, Nos. 1–3	13.30	
Seventy stg. retorten, 200 gr. One stg. gaspipette n. himpelary stativ	18.90	
One stg. gaspipette n. himpelary stativ	2.75	
One stg. gaspipette n. himpelary stativ		
One stg. gaspipette n. himpelary stativ	3.60	
One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ	7.75	•
One stg. gaspipette n. himpelary stativ	6.75	
One stg. gaspipette n. himpelary stativ	2.85	
One stg. gaspipette n. nimpetary stativ	4.60 5.75	•
One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ One stg. gaspipette n. himpelary stativ	2.75	
One stg. gaspipette n. himpelary stativ	3.00	
Thirty-two sti. retorten m. stn. 100 gr.	6.40	
Betrag der verpackungskosten, etc. Beglaucigungskosten	372.70	
Beglaucigungskosten	12.10	
Bruttocetrag der facturaM.	2,447.55	\$593 <u>\</u> 53
Bill of Warmbrunn, Quilitz & Co., in marks; total in dollars and cents:		
Two thousand sheets white German filtering paper	M.103.75	
Eighteen thousand sheets round filters	173.20	
Three thousand sheets round filters	6.70 5.65	
Five hundred sheets white filtering paper	7.50	•
Five hundred sheets white filtering paper Eleven thousand sheets white round filters	72.50	
Three thousand sheets white round filters	26.60	
Ten thousand five hundred sheets white round filters	30.25	
One thousand five hundred sheets yellow round filters	$\frac{6.00}{10.00}$	
Two hundred cracking wals, thin	4.00	
Five sets corkcovers, of cress.	13.75	
Two sets corkcovers, of cress	13.20	
One set corkcovers, of steel	11.00	
Two sets corkcovers, japanned tin plate	5.50 28.80	
One Bunsen's universal support, complete	97.60	
Universal support, on square form	38.35	
Evaporating dishes, porcelain	47.50	
Evaporating dishes, porcelain	16.75	
Evaporating dishes, porcelain, common	12.45	
Evaporating dishes porcelain glassform.	31 75	
Evaporating dishes, porcelain, glassform.	31.75 14.40	
Evaporating dishes, porcelain, glassform ————————————————————————————————————	31.75 14.40	
Evaporating dishes, porcelain, glassform ————————————————————————————————————	31.75 14.40 	
Evaporating dishes, porcelain, glassform————————————————————————————————————	31.75 14.40 1. 792.20 28.70	
Evaporating dishes, porcelain, glassform	31.75 14.40 1.792.20 28.70 1.763.50	
Evaporating dishes, porcelain, glassform————————————————————————————————————	31.75 14.40 1.792.20 28.70 1.763.50	
Evaporating dishes, porcelain, glassform  Porcelain drying vessels  Discount  Freight and packing  Consular certificate	31.75 14.40 4. 792.20 28.70 4. 763.50 25.80 10.70	104.00
Evaporating dishes, porcelain, glassform Porcelain drying vessels  Discount  Freight and packing Consular certificate	31.75 14.40 4. 792.20 28.70 4. 763.50 25.80 10.70 4. 800.00	194 00
Evaporating dishes, porcelain, glassform.  Porcelain drying vessels.  Discount  Freight and packing  Consular certificate.  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid nitric, fuming.	31.75 14.40 4. 792.20 28.70 4. 763.50 25.80 10.70 4. 800.00	194 00
Evaporating dishes, porcelain, glassform.  Porcelain drying vessels.  Discount  Freight and packing.  Consular certificate.  Bill of E. Merck, in marks; total in dollars and cents:  Five kilograms acid nitric, fuming.  Forty kilograms acid hydrochloric, pure.	31.75 14.40 4. 792.20 28.70 4. 763.50 25.80 10.70 4. 800.00 M.8.00 20.00	194 00
Evaporating dishes, porcelain, glassform— Porcelain drying vessels.  Discount  Freight and packing Consular certificate.  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid nitric, fuming Forty kilograms acid hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acidum hydrochloric, pure	31.75 14.40 4. 792.20 28.70 4. 763.50 25.80 10.70 4. 800.00 M.8.00 20.00 5.00	194 00
Evaporating dishes, porcelain, glassform— Porcelain drying vessels.  Discount  Freight and packing Consular certificate.  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid nitric, fuming Forty kilograms acid hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acidum hydrochloric, pure	31.75 14.40 4. 792.20 28.70 4. 763.50 25.80 10.70 4. 800.00 M.8.00 20.00 5.00	194 00
Evaporating dishes, porcelain, glassform.  Porcelain drying vessels.  Discount  Freight and packing.  Consular certificate.  Bill of E. Merck, in marks; total in dollars and cents:  Five kilograms acid nitric, fuming.  Forty kilograms acid hydrochloric, pure.	31.75 14.40 4.792.20 28.70 4.763.50 25.80 10.70 4.800.00 5.00 10.00 16.00	194 00
Evaporating dishes, porcelain, glassform— Porcelain drying vessels  Discount  Freight and packing Consular certificate  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acidum hydrochloric, pure One kilograms acid hydrochloric, pure One kilograms acid sulphuric Ten kilograms acid sulphuric Ten kilograms acid sulphuric Ten kilograms acid sulphuric Ten kilograms acid sulphuric Ten kilograms acid sulphuric Ten kilograms acid sulphuric, fuming	11.75 14.40 1.792.20 28.70 1.768.50 25.80 10.70 1.800.00 20.00 5.00 10.00 16.00 10.00	194 00
Evaporating dishes, porcelain, glassform.  Porcelain drying vessels.  Discount  Freight and packing Consular certificate.  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid nitric, fuming Forty kilograms acid hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acidum hydrochloric, pure One kilograms acid hydrosilico fluoric Ten kilograms acid sulphuric Five kilograms acid sulphuric, fuming Five kilograms acid sulphuric, fuming Five kilograms alcohol, absolute pure	31.75 14.40 4.792.20 28.70 4.763.50 25.80 10.70 4.800.00 5.00 10.00 10.00 7.00	194 00
Evaporating dishes, porcelain, glassform.  Porcelain drying vessels.  Discount  Freight and packing Consular certificate.  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid nitric, fuming Forty kilograms acid hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acidum hydrochloric, pure One kilograms acid hydrosilico fluoric Ten kilograms acid sulphuric Five kilograms acid sulphuric, fuming Five kilograms acid sulphuric, fuming Five kilograms alcohol, absolute pure	31.75 14.40 4.792.20 28.70 4.763.50 25.80 10.70 4.800.00 5.00 10.00 10.00 7.00	194 00
Evaporating dishes, porcelain, glassform— Porcelain drying vessels.  Discount  Freight and packing Consular certificate  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid nitric, fuming Forty kilograms acid hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acid sulphuric Five kilograms acid sulphuric Five kilograms acid sulphuric, fuming Five kilograms acid sulphuric, fuming Five kilograms alcohol, absolute pure One kilogram ethee, c.p. One thousand and ninety-four kilograms sulphuric acid	31.75 14.40 4.792.20 28.70 4.768.50 25.80 10.70 4.800.00  M.8.00 20.00 5.00 10.00 16.00 12.00 2.00 19.69	194 00
Evaporating dishes, porcelain, glassform.  Porcelain drying vessels.  Discount  Freight and packing.  Consular certificate	31.75 14.40 4.792.20 28.70 4.763.50 25.80 10.70 4.800.00 5.00 10.00 10.00 12.00 2.00 19.69 10.00	194 00
Evaporating dishes, porcelain, glassform— Porcelain drying vessels.  Discount  Freight and packing Consular certificate  Bill of E. Merck, in marks; total in dollars and cents: Five kilograms acid nitric, fuming Forty kilograms acid hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acidum hydrochloric, pure Ten kilograms acid sulphuric Five kilograms acid sulphuric Five kilograms acid sulphuric, fuming Five kilograms acid sulphuric, fuming Five kilograms alcohol, absolute pure One kilogram ethee, c.p. One thousand and ninety-four kilograms sulphuric acid	11.75 14.40 1.792.20 28.70 1.768.50 25.80 10.70 1.800.00 10.00 10.00 10.00 12.00 2.00 12.00 2.00	194 00

One hundred grams acid molybdic, freeOne hundred grams acid pyrogassic	M.1.60
One hundred grams acid pyrogassic	3.00
Two kilograms acid tartaric Ten kilograms ammonia carbonate	9.00 16.00
Five kilograms ammonia chlorida	6.00
One half kilogram ammonia fluoric	9.00
One half kilogram ammonia fluoric. One hundred grams ammonia molybdate.	1.20
	1.40
One half kilogram ammonia oxatate	3.25
One kilogram ammonia sulphate	2.00
One half kilogram barium acetate	2.50
Two kilograms barium carbonate	16.00
Two kilograms barium chloride  One half kilogram barium hydrate  One half kilogram barium nitrate  One half kilogram calcium oriac  One half kilogram calcium sulphate  One half kilogram copper mehagsic	10.00 1.00
One half kilogram harium nitrate	1.00
One half kilogram calcium oriac	27.00
One half kilogram calcium sulphate.	2.75
One half kilogram copper mebassic	8.00
One half kilogram copper mebassic.  One half kilogram fron sesquichloride.  One half kilogram fron sesquichloride.  One half kilogram fron sulphate oxydul.  Five kilograms fron sulphate sticks  One kilogram fron ammonia.	8.00
One half kilogram fron sesquichloride	1.80
One half kilogram fron sulphate oxydul	.80
One bilagrams from sulphiac sticks	4.00
One kilogram leed ecetate	4.50 1.40
One anogram read account and account and account and account and account and account account account and account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account accou	16.00
One kilogram lead oxide	4.00
One kilogram hagwesium chlorice	3.00
One half kilogram hagwesium oxyac, free	12.00
One kilogram hagwesium sulphate	1.60
One half kilogram mercury bichloride	4.50
One half kilogram mercury nitrate	4.00
One half kilogram mercury oxide	11.00
Two sheets litmus naner red	1.40 .20
Two sheets litmus paper, red	.20
Ten grams platinum chlorice	14.00
Two kilograms potassium bichromate	4.80
One kilogram potassium bisulphate	2.40
Two kilograms lead chromate One kilogram hagwesium chlorice One half kilogram hagwesium oxyac, free One kilogram hagwesium sulphate One half kilogram mercury bichloride One half kilogram mercury nitrate One half kilogram mercury oxide One kilogram copper sulphate Two sheets litmus paper, red Two sheets litmus paper, yellow Ten grams platinum chlorice Two kilograms potassium bichromate One kilogram potassium bisulphate One kilogram potassium bromate One kilograms potassium bromate One kilograms potassium bromate One kilograms potassium carbonate One kilogram potassium carbonate One kilogram potassium chlorate	11.00
Two kilograms potassium carbonate	4.40
Two kilograms potassium carbonate One kilogram potassium chromate One half kilogram potassium chromate One half kilogram potassium ferri cyanide. One half kilogram potassium ferri cyanide. One half kilogram potassium ferro cyanide Five kilograms potassium hydroxide Two kilograms potassium hydroxide, sticks One half kilogram potassium nitrate One half kilogram potassium nitrate	2.00
One bile gram potassium chromate	1.80
One helf kilogram notassium farri ovenida	21.00 4.00
One half kilogram notassium ferro evanide	1.80
Five kilograms potassium hydroxide	50.00
Two kilograms potassium hydroxide, sticks	8.00
One half kilogram potassium iodiac	13.00
Two kilograms potassium nitrate	3.00
One half kilogram potassium nitrite One half kilogram potassium permanganate	3.50
One half kilogram potassium permanganate	6.00
One half kilogram potassium sulphate One quarter kilogram potassium rhodanate Twenty grams silver metallic Fifty grams silver nitrate	.80
Twenty grams silver metallic	1.38 6.00
Fifty orang silver nitrate	7.00
	1.50
One kilogram sodium bicorate. One kilogram sodium bicarbonate	2.50
One kilogram sodium bicarbonate	1.25
One half kilogram sodium bisulphate	1.00
One half kilogram sodium bisulphite  Five kilograms sodium carbonate crist.  One kilogram sodium carbonate crist, dry	6.00
Five kilograms sodium carbonate crist.	6.00
One kilogram sodium carbonate crist, dry	2.50
One kilogram sodium chloride	6.00 2.50
Two kilograms sodium nitrate One half kilogram sodium hydroxide	10.00
Two kilograms sodium hydroxide, pure	3.80
One half kilogram sodium nitrate	2.00
Two kilograms sodium bhyosulphate	2.00
One half kilogram sodium nosframate	1.88
Two kilograms sodium and ammonia	9.00
One half kilogram tin chloride	1.50
One fourth kilogram uranium nitrate	12,50 6.00
One kilogram zinc metallic, c. p. sticks	2.50
One collection of alkaloids, 52 specimens	80.00
One collection of clucosides 72 specimens	100.00

One collection physiological preparation	M.75.00	
One collection physiological preparation  Fen grains lacmoid, c. p. y. scales  Five hundred grams lacmus com't	1.25	
I wo hundred grams phenolyhbalcinc	.65 ²	-
One hundred grams methylorange	1.60	
One hundred grams tropaclin	2.50	
One hundred grams tropaclin Fifty sheets Gilmn's paper, red Fifty sheets Gilmn's paper, blue One hundred sheets furmeric paper	2.00	
Fifty sheets Gilmn's paper, blue	2.00	
One hundred sheets furmeric paper	4.00	
Fifty sheets congo paper  Chirty grams sulphanilic acid	2.00	
I'nirty grams suiphanilic acid	1.20	
Twenty grams naphthy'lamine Two hundred grams diphenylamine	.60 4.00	
Two kilograms parchment paper	4.40	
Packing and shipping charges	34.80	
Packing and shipping charges	53.45	
)ne iar	1.90	
Consular fees.	10.70	
	5.071.17	
	1.974.15	\$236 23
Freight and charges—J. R. McDonald & Co.		102 58
Bill of Robert Muencke, in marks; total in dollars and cents:	Marks. 2.50	
One thousand runde filter 595, 53 cm.	5.30	
Five thousand runde filter 595, 9 cm.	19.75	
Ten thousand runde filter 595, 11 cm.	45.00	
Fen thousand runde filter 595, 12½ cm	50.00	
Five thousand runde filter 595, 15 cm.	35.50	
Five thousand runde filter 595, 15 cm	8.70	
One thousand runde filter 595. 24 cm.	15.75	-
One thousand runde filter 595, 27 cm. Five hundred runde filter 595, 32 cm.	22.00	
Five hundred runde filter 595, 32 cm.	13.40	
Five hundred runde filter 595, 384 cm.	15.75	
One thousand runde filter 597, 51 cm.  Two thousand runde filter 597, 7 cm.	3.80	
I'wo thousand runde filter 597, 7 cm.	8.00	
Five thousand runde filter 597, 9 cm.	29.00	
Pen thousand runde filter 597, 11 cm. Ten thousand runde filter 597, 123 cm.	71.00 74.00	
Five thousand runde filter 597, 15 cm.	47.50	
One thousand runde filter 597, 18 cm.	12.60	
One thousand runde filter 597, 24 cm.	18.90	
One thousand runde filter 597, 18 cm. One thousand runde filter 597, 24 cm. One thousand runde filter 597, 27 cm.	25.00	
Five hundred runde filter 597, 32 cm. Five hundred runde filter 597, 38½ cm.	15.25	
Five hundred runde filter 597, 38½ cm	20.00	
Five hundred runde filter 597, 50 cm.	33.00	
One thousand runde filter 589, 5½ cm. One thousand runde filter 589, 7 cm.	15.00	
One thousand runde filter 589, 7 cm.	16.00	
rive nungred runge niter 989, 11 cm.	24.00	
Two hundred runde filter 589, 12½ cm.	14.50	
One thousand runde filter 589, 9 cm One hundred runde filter 589, 15 cm.	6.40 3.80	
One thousand runde filter 500, 51 cm	18.00	
One thousand runde filter 590, 5½ cm	20.00	
One thousand runde filter 590, 9 cm	30.00	
Five hundred runde filter 590, 11 cm.	18.00	
Five hundred runde filter 590, 11 cm.  Two hundred runde filter 590, 12½ cm.	8.00	
One hundred runde filter 590, 15 cm.	4.80	
One thousand falsenfilser 588, 12½ cm. One thousand falsenfilser 588, 18½ cm.	13.50	
One thousand falsenfilser 588, 18½ cm.	18.00	
Five hundred falsenfilser 588, 24 cm.	14.30	
Five hundred falsenfilser 588, 32 cm Three hundred falsenfilser 588, 38½ cm	20.80	
Two hundred falsenfilser 584, 24 cm.	15.90 8.00	
Two hundred falsenfilser, 28 cm.	12.00	
Two hundred falsenfilser, 32 cm.	15.60	
One hundred falsenfilser, 38½ cm	10.80	
One hundred falsenfilser, 50 cm.	12.00	
One hundred falsenfilser, 50 cm. Three hundred felsyinpapier, 598.	54.00	
Five hundred felsvinpapier, 591	75.00	
One thousand felsvinpapier, 58-58, I	67.50	
Two rollen felsyinpapier, 566	25.00	
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One chlorenswicklungs app., 1 lsr. Two joichser, m. kgl., 10 cm.	3.75	
Two joichser, m. kgl., 10 cm. Two joichser, 12 cm. Two joichser 14 cm	1.00	
	1.20	

Two joichser, 16 cm. Two joichser, 18 cm. Twenty-two joichser gerrips, 11 sorsen One messflachen, 100 One messflachen, 250 One messflachen, 500	M.2.40
Two joicnser, 18 cm.	3.20 8.40
One megaflachen 100	.90
One messflachen 250	1.30
One messflachen, 500	1.80
One messflachen, 1,000	2,30
One messflachen, 1,000	3.75
One exsiceasor mit Hahn	6.00
One exsiccasor mit Hahn	8.50
Two filtrirkolben, 100 cc.	.60
Two filtrirkolben, 250 cc.	1.80
Two filtrirkolben, 500 cc. Two filtrirkolben, 750 cc.	1.00 1.10
Two filtrirkolben, 1,000 cc.	1.20
Two filtrirkolben 2 000 cc	2.60
Two filtrirkolben, 2,000 cc. Two filtrirkolben, 200 cc.	1.40
Two filtrirkolben, 250 cc.	1.60
Two filtrirkolben, 500 cc.	1.80
Two filtrirkolben, 500 cc. Two filtrirkolben, 750 cc.	1.90
Two filtrirkolben, 1.000 cc.	2.00
One vorlage m. 2 tub, 1 lsr. One vorlage m. 2 tub, 2 lsr. One vorlage m. 2 tub, 3 lsr.	2.00
One vorlage m. 2 tub, 2 lsr	2.50
One vorlage m. 2 tub, 3 lsr.	3.50
Une voriage m. Z tiin. a isr.	4.50
One vorlage m. 2 tub, 4 lsr.	1.25
One vorlage m. 2 tub, § Isr.	1.50
One vorlage m. 2 tub, ½ lsr. One vorlage m. 2 tub, ½ lsr. One vorlage m. 2 tub, 1 lsr. One vorlage m. 2 tub, 2 lsr.	$\frac{2.00}{2.50}$
One verlage iii. 2 tub, 2 isr	3.80
One vorlage m. 2 tub, 4 lsr. One vorlage m. 2 tub, 5 lsr. One vorlage m. 2 tub, 5 lsr. One vorlage m. 2 tub, 1 lsr.	1.50
One vorlage m. 2 tub. I lar	2.00
One vorlage m. 2 tub. 1 lsr.	2.50
One vorlage m. 2 tub, 2 lsr.	3.60
One vorlage m. 2 tub. 4 lsr	4.50
Ten sast, becherglaser, 1-5 volg.	10.00
Five sasf. becherglaser, 1-8 yolg.	9.00
Five sasf, becherglaser, 1-8 yolg. One sasf, becherglaser, 1-10 yolg.	3.00
One sast, becherglaser, 1-12 volg.	4.00
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TWO SAST Decherolaser Egilolas I-III	10.00
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One oblavant wieldlyings appears then 9 lar	3.50
One chlorentwicklungs apparas thon 4 lsr	5.50
One glaskassen, 130–105 mm. One glaskassen, 235–185 mm.	1.10
One glaskassen, 235–185 mm.	2.50
One glaskassen, 210–155 mm.	2.00
One glaskassen, 210–155 mm. One glaskassen, 315–235 mm.	4.95
One glaskassen, 365–315 mm.	7.70
One glaskassen, 420–315 mm.	11.00
One glaskassen, 420–315 mm. One glaskassen, 50–25–25 cr.	.60
()ne glaskassen, 200-120-120	3.50
One glaskassen, 300-200-150	10.50
One absorptionagetass, 10 cm.	.75 1.00
One glaskassen, 300–200–150	2.00
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One satz normal araometer	50.00
One satz araometer	15.00
One half kg. asbess	3.00
Four burssen	1.00
One burssen	.75
One burssen	1.00
Four hundred glasperlen	2.00
One dialysasor	3.50
One gasentwicklungsapp	10.50
One salz gervichse	13.75 7.50
One stocke mis glashahn Two gluhschilfchen, 0	.70
Two gluhschilfchen, 1	.50
Two gluhschilfchen, 2	.50
Two gluhschilfchen, 3	.50
Two gluhschilfchen, 4	.50
A	10.00

Five queschhahne A, 4 cm.	M.1.10
Five queschhahne A. 5 cm.	1.25
KIVE dilegenhanne A. K.em	1.50
Five queschhahne A, 7–5 cm.  One queschhahne B, 4 cm.  Two queschhahne B, 5 cm.	1.75
Two queschhahne B 5 cm	.35 .76
	.40
One queschhahne B, 73 cm.  Five queschhahne C, 7-5.  Two queschhahne, D  Two queschhahne, E  Two queschhahne, F	.48
Five queschhahne C, 7-5	1.25
Two queschhahne, D	.90
Two queschhahne, E	.90
Two queschanne, F	1.30
Two queschhahne, G Two queschhahne, H Two queschhahne, F One queschhahne K, 28 mm. One queschhahne K, 30 mm. One queschhahne K, 35 mm.	.90 . <b>4</b> 0
Two queschhahne, F	.80
One queschhahne K, 28 mm.	.80
One queschhahne K, 30 mm.	.98
One queschhahne K, 35 mm.	1.10
Two queschhahne L One queschhahne F, 40 mm. One queschhahne F, 45 mm. One queschhahne K, 40 mm.	1.50
One gueschhahne F, 40 mm.	1.90
One queschhanne K 40 mm	1.00 1.20
One queschhahne muencke	1.25
Ten halser.	3.00
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Two rundkolben One sasy korkcohrer, 1-12 One korkprusse Five flache drahlnesy kuppen Three flache drahlnesy kuppen	8.00
One sasy korkcohrer, 1–12	6.00
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One morser glasiol, No. 5	1.65
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One pory plasse, 10 cm.	.35
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One zangen n. nickel	4.00
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Twenty kgl. pory tiegel ohne deckel, No. 0.	7.00
Twenty kgi. pory tiegel ohne deckel, No. 1	8.00
18 ¹⁴	od by

Ten kgl. pory tiegel ohne deckel, No. 2.  Three kgl. pory tiegel ohne deckel, No. 8.  Two kgl. pory tiegel ohne deckel, No. 4.  One kgl. pory tiegel ohne deckel, No. 5  Five shmelysiegel, No. 3.  Five shmelysiegel, No. 4.  Five shmelysiegel, No. 5.  One shmelysiegel biscinlgsony.	M.6.00
Three kgl, pory tiegel ohne deckel, No. 3	2.40
Two kgl. pory tiegel ohne deckel, No. 4	1.70
One kgl. pory tiegel ohne deckel, No. 5	1.05
Five shmelysiegel, No. 3	1.75
Five shmelysiegel, No. 4	2.00
Five shmelysiegel, No. 5	2.50
One shmelysiegel biscinlgsony	.30
One shmelysiegel biscinlgsony	.35
One shmely siegel biscingsony	.45
One shmelysiegel biscinigsony One shmelysiegel biscinigsony One shmelysiegel biscinigsony	.55
One shmelysiegel biscinigsony One shmelysiegel biscinigsony One untersalzschale glass, No. 2. Two untersalzschale glass, No. 1. Two untersalzschale glass, No. 0. One untersalzschale glass, No. 0. Two untersalzschale glass, No. 2.	.75
One shmely siegel biscinly sony	.80
One untersalzschale glass, No. 2	.30
Two untersalzschale glass, No. 1	.48
Two untersalizachale glass, No. 0	.36
One untergalzschale glass No. 2	.45
Two untersal replaced lass No. 1	.70
Two untersalization e glass, No. 1	.60
One untersalzschale glass, No. 2 Two untersalzschale glass, No. 0. Two untersalzschale glass, No. 0. Three satz pory kinge glasiol Four hundred gr. wrot rose metall One coml fange. Five kg, zink arsenfric. One half kg, zink chem rein pulver. One half kg, zink chem rein ssaben One kg, zink chem rein One half kg, zink chem rein Ten kg, zink chem rein Ten kg, vesslifse abs	7.50
Three satz pory kinge grasior	7.20
Four fundred gr. wrot rose metali	
One comi lange	2.25
Five kg. zink arseniric	8.75
One half kg. zink chem rein pulver.	5.00
One half kg. zink chem rein ssaben	4.25
One kg. zink chem rein	8.50
One half kg. zink abs chem rein	11.00
Ten kg. yesslifse abs Three feilen, 6 cm.	3.00
Three feilen, 6 cm.	1.50
Three feilen. 8 cm.	2.25
Two feilen, 10 cm.	1.80
Two feilen, 16 cm.	2.40
Three feilen, 6 cm.	.90
Two feilen, 10 cm.	.80
Four feilen, 16 cm.	2.40
Four feilen, 16 cm. One feilen, 20 cm.	1.00
Two feilen, 8 cm.	.80
Two feilen, 10 cm.	1.00
One feilen, 12 cm.	.50
Four feilen, 12 cm.	2.00
One feilen 18 cm	.70
Ninety classification 100 mm in 8 furbins	31.50
Wheel glasplassen, 200 mm work	
Three glaspiassen, 200 mm, 1080	3.60
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Two konren kalumm nasimum	.35
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Three absorpsions ronren, 15 cm.	7.50
Two absorptions rohren, 20 cm.	6.00
One absorpsions rohren, mit furt	5.00
One absorpsions rohren m. hahnssospen	4.50
One absorpsionsgefais	3.50
Four feilen, 12 cm. One feilen, 16 cm. Ninety glasplassen, 100 mm. in 6 furbins Three glasplassen, 200 mm. rosh Two glasplassen, 200 mm. orange. One glasplassen, 200 mm. gelc. Two kohren kalumm nasimum Four absorpsions rohren, 10 cm. Three absorpsions rohren, 15 cm. Two absorpsions rohren, mit furt. One absorpsions rohren, mit furt One absorpsions gefais One absorpsionsgefais One kl. absorpsions schlange One destellasions rohren	3.00
One kl. absorpsions schlange	1.25
One destellasions rohr	4.00
One destellasions rohr One extractions apparat, 250 cc. One extractions apparat, 1,000 cc.	5.00
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One filtrirsohm B	.40
One gagged flagch	1.50
One desire which in	2.75
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One kohelensaure apparuse	6.00
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Two kolben cirnformig.	1.00
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One stateo slas roh lack	1.10
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One stateo slas roh lack	1.20
One stateo sias ron lack	1.60
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One waudtapel, aufgezogen, No. 8.	12.50
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One voltameter.  Three stative, etc. One waudtapel, aufgezogen, No. 1. One waudtapel, aufgezogen, No. 2. One waudtapel, aufgezogen, No. 8. One waudtapel, aufgezogen, No. 4. One waudtapel, aufgezogen, No. 5. One waudtapel, aufgezogen, No. 6. One waudtapel, aufgezogen, No. 7. One waudtapel, aufgezogen, No. 7. One waudtapel, aufgezogen, No. 8. One waudtapel, aufgezogen, No. 8. One waudtapel, aufgezogen, No. 9. One waudtapel, aufgezogen, No. 10. One waudtapel, aufgezogen, No. 11. One waudtapel, aufgezogen, No. 11. One waudtapel, aufgezogen, No. 12. One regulator	6.50
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One thermometer	3.00
One thermometer	3.50 4.00
One thermometer One thermoregulator	9.00
One stative kaliannams	6.50
One stative kaliapparus	7.50
One rapidkocher	4.50
One rapidkocher	9.50
Ten gaslampen	16.00
One gaslampen	2.90 2.50
One gaslampen	5.00
Two gaslampen	6.00
One gaslampen	2.25
One gaslampen	2.75
Five aupsasye	1.25
One Meuncke lampe	4.50
One nickel loppel	1.10

One kohlensage Two porose thonplatten, 9 cm. Two porose thonplatten, 12 cm.	M.1.25
Two porose thonplatten, 9 cm.	.30
Two porose thonplatten, 12 cm.	1.60
Two porose thonplatten, 20 cm. One porose thonplatten, 20 cm. One porose thonplatten, 30 cm.	1.50
One porose thompiatten, 20 cm.	1.10 1.50
One porose thouplatten, 35 cm.	3.00
One porose thomplatten, 40 cm.	4.50
One half kg. staniol	3.00
One porose thonplatten, 40 cm. One half kg. staniol One klemme, K.	2.50
	3.00
One klemme, O. One klemme, P. One klemme, Q. One klemme, R.	4.75
One klemme, P.	3.50
One klemme, Q	4.50
One klemme, R	5.00
One kiemme. U	3.25
One klemme, D	$\frac{2.75}{2.75}$
One federade klemme klein	2.00
One federmde klemme klein	2.75
One donnelklemme	5.00
One doppelklemme	5.75
Seven doppelmutfen, 1,117	6.30
Fourteen doppelmutfen	14.00
Fourteen doppelmutfenOne wasserstrahllufspumpe, No. 8	2.75
One wasserstrahllufspumpe One wasserstrahllufspume	3.25
One wasserstrahllufspume	8.50
Une exsiccasor	6.50
Two filtrirkolben One kolbentrager, 15 cm.	1.80
One helbentrager, 10 cm.	2.50 3.25
One kolbentrager, 25 cm.	4.80
One kolbentrager, 40 cmOne kolbentrager, 50 cm	5.50
One kolbentrager, m. holzletter, 12 cm.	2.75
One kolbentrager, m. holzletter, 17 cm.	3.75
One kolbentrager, m. holzletter, 17 cm. One kolbentrager, m. holzletter, 20 cm.	4.25
One microlampe	3.20
One luftpunpenletter	32.00
One microlampe One luftpunpenletter One luftpunpenletter One kreufschulung, 10-8	27.00
One kreufschulung, 10-8	1.25
One kreufschulung, 10-10	1.30
One kreufschulung, 10–10 One kreufschulung, 10–8 One kreufschulung, 10–10	1.40
One Kreufschulung, 10-10	1.50
Five universalhalzer One landbad, 40–20 cm.	24.75 15.00
One blamme A	1.75
One klemme, A	1.60
One klemme, C	1.60
One klemme, I	2.25
One klemme, I One klemme, K One klemme, L	4.50
One klemme, L	2.75
One salz mess ringe	3.50
One salz mess ringe	3.50
Five salz eis ringe Two salz mess ringe	6.50
Two salz mess ringe	4.00 14.00
Ten salz eis ringe One salz mess ringe	2.20
One salz mess ringe	2.55
One salz mess ringe	3.20
One salz eis ringe	1.80
One flaschen pory, 125 cc. One flaschen pory, 250 cc. One flaschen pory, 500 cc.	1.05
One flaschen pory, 250 cc.	1.20
One flaschen pory, 500 cc.	1.50
Une naschen porv. 750 cc.	1.80
One flaschen pory, 1,000 cc. One flaschen pory, 1,500 cc. One vortage m. 2 tub	2.25
One reaction of 9 4 mb	3.00
One worked m. 2 tub.	.70 .80
One vortage m. 2 tub One vortage m. 2 tub	1.20
One vortage m. 2 tub	1.50
One vortage m 2 tub	2.50
One vortage m. 2 tub	3.00
Fifty kjeldahl kolben	15.00
Twenty kjeldahl kolben	10.00
One burette	6.50

One reagensgistell	M.1.50	
One awayn n flesche		
The graummasche	4.50	
Five zangen n. messg vermicken	12.50	
Two mess gabeln	3.00	
Five paar wageschalchen	6.00	
One wasserstrabllufsnumpe No 12	33.00	
One wassenstrabilities with the T		
One wasserstrantiuspumpe, No. 7	16.50	
One graunflasche Five zangen n. messg vermickell Two mess gabeln Five paar wageschalchen One wasserstrahllufspumpe, No. 12 One wasserstrahllufspumpe, No. 7 One geblase n. glas	70.00	
One regulator	9.50	
One regulator. One normal spermometer.	10.00	
One kunferkelhen	12.00	
One sale bowleds and 1 0	2.00	
One saiz korkbonrer, 1-0	3.50	
One Muencke lampe	6.00	
One kupferkolben One salz korkbohrer, 1-6 One Muencke lampe One. Hirschroald lampe	7.50	
One burettentrager	14.50	
Two pinettenflaschen	6.00	
Two robenteers		
Two kohrentrager	8.00	
One klemme, L	2.75	
One klemme. N	4.00	
One doppelklemme	5.00	
One doppelklemme	4.50	
One doppelklemme		
Two gobbetstemme	9.00	
Three salz eis ringe	6.30	
Five salz eis ringe One salz eis rigne Five salz eis ringe	9.00	
One salz eis rigne	2.20	
Five salz eis ringe	9.00	
One voltameter	10.00	
One voitameter		
One universalstatio	28.45	*
One federade klemme gross	2.50	
One federade klemme gross	3.25	
One federnde klemme gross	225.25	
Tacking, ev.	220.20	
м.	4,282.83	<b>\$1,038</b> 59
Ten thousand four hundred cubic feet gas—Oakland Gas Co		26 00
Platinum wire foil—Justinian Caire		30 00
Nine and one half fact wire cloth—Justinian Caire		4 06
Cinta and the name of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of		15 00
Sixty ganous coar on—Justinian Carre	<del></del>	15 00
Three dozen glass funnels—Justinian Caire		4 32
Three dozen glass funnels—Justinian Caire Three watch glasses—Justinian Caire		4 32 75
Three dozen glass funnels—Justinian Caire Three watch glasses—Justinian Caire Four dozen porcelain crucibles—Justinian Caire		4 32 75 8 16
Three dozen glass funnels—Justinian Caire Three watch glasses—Justinian Caire Four dozen porcelain crucibles—Justinian Caire One retort—Justinian Caire		4 32 75 8 16
Ten thousand four hundred cubic feet gas—Oakland Gas Co.  Platinum wire foil—Justinian Caire.  Nine and one half feet wire cloth—Justinian Caire.  Sixty gallons coal oil—Justinian Caire.  Three dozen glass funnels—Justinian Caire.  Three watch glasses—Justinian Caire.  Three watch glasses—Justinian Caire.  Four dozen porcelain crucibles—Justinian Caire.  One retort—Justinian Caire.	· · · · · · · · ·	4 32 75 8 16 10 00
Three dozen glass funnels—Justinian Caire Three watch glasses—Justinian Caire Four dozen porcelain crucibles—Justinian Caire One retort—Justinian Caire Ten thousand cubic feet gas—Oakland Gas Co.		4 82 75 8 16 10 00 25 00
Ten thousand cubic feet gas—Oakland Gas Co	· · · · · · · · ·	25 00 6 50
Ten thousand cubic feet gas—Oakland Gas Co	· · · · · · · · ·	25 00 6 50
Ten thousand cubic feet gas—Oakland Gas Co	· · · · · · · · ·	25 00 6 50
Ten thousand cubic feet gas—Oakland Gas Co	· · · · · · · · ·	25 00 6 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire		25 00 6 50 5 00 21 25 2 70
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire		25 00 6 50 5 00 21 25 2 70 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire		25 00 6 50 5 00 21 25 2 70 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire		25 00 6 50 5 00 21 25 2 70 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire		25 00 6 50 5 00 21 25 2 70 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire		25 00 6 50 5 00 21 25 2 70 50 1 25 60 3 00
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two byndred tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two byndred tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two byndred tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two hyndrod tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two hyndrod tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two hyndrod tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two hyndrod tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire. Six quires glazed paper—J. Caire Blank books—J. Caire Two hyndrod tags. J. Caire		25 00 6 50 5 00 21 25 2 70 1 25 60 3 00 2 40
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co.		25 00 6 50 5 00 21 25 2 70 5 00 1 25 60 3 00 2 40 2 95 9 90 9 50 8 91 9 95 9 98 8 91 9 98 8 91 9 98 8 98
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two pairs tongs—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co.		25 00 6 50 5 10 25 2 70 1 25 2 70 1 25 3 00 2 40 3 90 2 90 9 91 9 95 48 25 48 25
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two pairs tongs—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co.		25 00 6 50 5 50 21 25 50 1 25 60 2 35 90 2 35 90 9 50 8 915 48 25 8 25 8 275
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. Four letter files—Le Count Bros.		25 00 6 50 5 10 25 2 70 1 25 2 70 1 25 3 00 2 40 3 90 2 90 9 91 9 95 48 25 48 25
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. Four letter files—Le Count Bros.		25 00 6 50 5 50 21 25 50 1 25 60 2 35 90 2 35 90 9 50 8 915 48 25 8 25 8 275
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. Four letter files—Le Count Bros.		25 00 6 50 5 00 21 25 2 70 1 60 3 00 2 2 50 8 91 9 9 55 48 50 2 70 2 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two pairs tongs—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros.		25 00 6 50 21 25 25 2 750 1 25 80 2 35 2 90 2 9 50 48 25 48 25 2 90 5 75
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two pairs tongs—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros.		25 00 6 50 21 25 2 70 1 25 2 70 2 1 50 3 00 2 35 9 9 50 8 91 48 25 8 50 7 50 7 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two sieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co.		25 6 500 5 6 500 21 2 70 2 5 2 50 3 0 0 0 0 2 2 3 50 2 9 5 9 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two sieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co.		25 00 6 500 21 25 750 1 25 800 2 35 90 2 35 90 2 9 59 91 48 2 50 2 9 59 95 95 95 95 95 95 95 95 95 95 95 9
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Bix quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two sieves—J. Caire Two sieves—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Freightage—Southern Pacific Co. Frive gallons bisulphide of carbon—John H. Wheeler		25 6 500 5 6 500 21 2 70 2 5 2 50 3 0 0 0 0 2 2 3 50 2 9 5 9 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Bix quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two sieves—J. Caire Two sieves—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Freightage—Southern Pacific Co. Frive gallons bisulphide of carbon—John H. Wheeler		25 00 6 500 21 25 750 1 25 800 2 35 90 2 35 90 2 9 59 91 48 2 50 2 9 59 95 95 95 95 95 95 95 95 95 95 95 9
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Bix quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two sieves—J. Caire Two sieves—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Freightage—Southern Pacific Co. Frive gallons bisulphide of carbon—John H. Wheeler		25 00 6 50 21 25 70 21 25 50 21 25 50 21 25 50 21 25 50 21 25 50 21 25 50 22 35 90 22 35 90 23 50 24 8 50 25 50 26 21 10 26 21 10 26 21 10 26 21 10 27 50 28 21 10 28
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two bieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Friegallons bisulphide of carbon—John H. Wheeler Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Friegallons bisulphide of carbon—John H. Wheeler Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co.		25 00 5 00 5 00 5 00 5 00 5 00 5 00 5 0
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Blank books—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two sieves—J. Caire Two sieves—J. Caire Two sieves—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. Four letter files—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Freightage—Southern Pacific Co. Frive gallons bisulphide of carbon—John H. Wheeler Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Wells, Fargo & Co.		25 00 6 50 21 25 00 21 25 00 21 25 00 21 25 00 21 25 00 21 25 00 22 35 00 23 90 24 35 00 25 05 05 05 05 05 05 05 05 05 05 05 05 05
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two bundred tags—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Cxpressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Frieg gallons bisulphide of carbon—John H. Wheeler Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Exilon Gillon Eight & Amend.		25 00 6 50 21 25 00 21 25 00 21 25 00 2 3 040 3 040 3 040 3 99 99 50 8 91 50 48 25 00 2 50 50 75 50 26 3 10 27 00 3 50 27 00 3 50 3 50 3 50 50 50 50 50 50 50 50 50 50
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two bieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Friegallons bisulphide of carbon—John H. Wheeler Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Bill of Eimer & Amend: Three dozen desiccators	\$16 50	25 00 6 50 21 25 750 1 25 750 2 350 2 3
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two bieves—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Expressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Friegallons bisulphide of carbon—John H. Wheeler Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Bill of Eimer & Amend: Three dozen desiccators		25 00 6 50 21 25 750 1 25 750 2 350 2 3
Ten thousand cubic feet gas—Oakland Gas Co.  Expressage—Patterson & Co. Postage stamps—N. B. Byrne  Expressage—Patterson & Co. Fifteen pounds acetic acid—J. Caire Five pounds red lead—J. Caire Sheet brass—J. Caire Rivets and rivet set—J. Caire Six quires glazed paper—J. Caire Blank books—J. Caire Two hundred tags—J. Caire Two bundred tags—J. Caire Two pairs tongs—J. Caire Three thousand eight hundred cubic feet gas—Oakland Gas Co. Insurance (marine)—Canton Insurance Office Freight and expressage—Patterson & Co. Nineteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Two copy books—Le Count Bros. One copy brush—Le Count Bros. One copy brush—Le Count Bros. One tin hanging water-bowl—Le Count Bros. Cxpressage—Patterson & Co. Ten thousand five hundred cubic feet gas—Oakland Gas Co. Freightage—Southern Pacific Co. Frieg gallons bisulphide of carbon—John H. Wheeler Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Patterson & Co. Ten thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Exilon Gillon Eight & Amend.	\$16 50	25 00 6 50 21 25 750 1 25 750 2 350 2 3

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Bill of Franz Schilling, in marks; total in dollars and cents:	Marks.
One hundred stp. kolben ohne tubno, 1,000 gr.	36.00 9.50
One kiste embellage Fifty st. kolben ohne tubno, 750 gr. Sixty-five st. kolben ohne tubno, 500 gr.	16.00
Sixty-five st. kolben ohne tubno, 500 gr.	14.30
One kiste empenage	8.00
Seven st. kochflaschen, 8,000 qr.	14.00
Seven st. kochflaschen, 6,000 dr. Eleven st. kochflaschen, 2,000 dr.	12.25
One kiste embellage	5.28 9.5 <b>0</b>
One kiste embellage One hundred st. kochflaschen, 500 qr. One hundred st. kochflaschen, 200 qr.	18.00
One hundred st. kochflaschen, 200 gr.	9.00
One kiste embellage	7.50
Thirty-four st. kochflaschen, 200 qr. One hundred and twenty-five st. kochflaschen, 200 qr.	16.32
One hundred and twenty-five st. kochflaschen, 200 qr.	11.25
One kiste embellage Fifty st. kochflaschen, 1,000 qr. Sixty st. kochflaschen, 750 qr.	8.00
Sixty at kachflagchen 750 ar	12.50 13.20
One kiste embellage	8.00
One kiste embellage Forty st. kochflaschen, 750 qr. Two hundred and ten st. kochflaschen, 250 qr.	8.80
Two hundred and ten st. kochflaschen, 250 gr.	21.00
One hindred at kochijaschen 30 ar	5.00
One kiste embellage Thirty-six st. kolben ohne tubno, 2,000 qr. One hundred and twenty st. kolben ohne tubno, 60 qr.	8.00
Thirty-six st. kolben ohne tubno, 2,000 qr.	21.60
One hundred and twenty st. kolben onne tubno, 60 qr.	10.80
One kiste embellage	7.00 9.60
Twenty st. kolben ohne tubno, 4,000 qr.	18.00
One kiste embellage	8.00
One kiste embellage Two st. kolben ohne tubno, 4,000 qr.	1.80
Two st. kolpen onne tuono. 10.000 dr.	6.00
Five st. kolben ohne tubno, 8,000 qr.	11.00
Five st. kolben ohne tubno, 8,000 qr.  Thirteen st. kolben ohne tubno, 600 qr.  One hundred st. kolben ohne tubno, 60 qr.	24.05
One hundred st. Kolben onne tubno, 60 qr.	9.00
One kiste embellage	10.50 10.52
Thirteen st. woulfsche flaschen m. 3 II 200 gr	5.85
Thirteen st. woulfsche flaschen m. 3 U. 250 gr.	6.50
Thirteen st. woulfsche flaschen m. 3 U, 200 qr.  Thirteen st. woulfsche flaschen m. 3 U, 200 qr.  Twelve st. woulfsche flaschen m. 3 U, 500 qr.  Twelve st. woulfsche flaschen m. 3 U, 500 qr.	8.40
	9.60
Six st. woulfsche flaschen m. 3 U, 1,000 qr.	5.40
Six st. woulfsche flaschen m. 3 U, 1,000 qr.  Four st. woulfsche flaschen m. 3 U, 2,000 qr.  Three st. woulfsche flaschen m. 2 U, 200 qr.	6.80
Three st. Wouldsche flaschen m. 2 U, 200 qr.	1.20
Two st. woulfsche flaschen m. 2 U, 250 qr.  Four st. woulfsche flaschen m. 2 U, 500 qr.  Four st. woulfsche flaschen m. 2 U, 750 qr.  Three st. woulfsche flaschen m. 2 U, 1,000 qr.	.90 2.40
Four st. wouldsche flaschen m. 2 U. 750 gr.	2.80
Three st. woulfsche flaschen m. 2 U. 1.000 gr.	2.40
Une kiste empeliage	7.00
Ten at kochflaschen 5 000 ar	15.00
Five st. kochflaschen, 6,000 qr. Eleven st. kochflaschen, 4,000 qr. Fifteen st. kolben ohne tubno, 500 qr. One kiste embellage Ten st. kochflaschen, 4,000 qr.	8.75
Eleven st. kochflaschen, 4,000 qr.	9.24
One birts embelled	3.30 10.50
Ten et bochfleschen 4 000 or	8.40
Thirty-five st. kolben ohne tubno. 500 gr.	7.70
Thirty-five st. kolben ohne tubno, 500 qr	9.60
One kigte embellege	8.00
Five st. gascutebindugsflaschen, 100 qr.  Eleven st. gascutbindungsflaschen, 760 qr.  One hundred and four st. gascutbindungsflaschen, 250 qr.  Forty st. gascutbindungsflaschen, 500 qr.	2.25
Eleven st. gascutbindungsflaschen, 750 qr.	4.40
One hundred and four st. gascutbindungsflaschen, 250 qr.	20.80
One bigte embelled	12.00 8.00
One kiste embellage	15.00
Three st. kochflaschen, 8,000 qr.	6.60
One kiste embellage	8.00
Three st. kochflaschen, 8,000 qr. Two hundred st. kolben ohne tubno, 200 qr.	6.60
Two hundred st. kolben ohne tubno, 200 qr.	24.00
One kiste embellage	8.50
Forty-five and one half ko. glasrohren, 4-16 m. d'cm.	45.50
Seven ko. glasrohren, 21-23 m. d'cm.	8.40 3.00
One kiste embellage One hundred and fifty st. kolben ohne tubno, 250 qr.	24.00
Two hundred st. kolben ohne tubno, 100 qr.	20.00
One kiste embellage	8.50
One kiste embellage Fourteen st. retorten mit stopsel, 2,000 qr.	11.20
Nineteen st. retorten mit stopsel, 1,000 qr.	10.45

One kiste embellage	M.8.50
Forty-three st. retorten mit stopsel, 750 qr.	30.10
One st. retorten mit stopsel, 1,000 qr.	.55
	8.00
One hundred and sixty salze becherglaser n. 1-5 One kiste embellage Six salze becherglaser n. 1-16 Twenty salze becherglaser n. 1-12 One kiste embellage Twenty-six einselzkistchen Fifty salze becherglaser n. 1-10 Fifty einselzkisten One kiste embellage Fifty-five st. retorten mit stopsel, 1,000 qr. One kiste embellage One hundred and ten st. retorten mit stopsel, 250 qr. One kiste embellage Thirty ko. cylinderrohren n. 12-16 Six st. sicherheitsrohren m. 4 kugeln, No. 586 Thirteen st. sicherheitsrohren m. 2 kugeln, No. 586	120.00
One kiste embellage	6.50
Six salze becherglaser n. 1-16	28.50
Twenty salze becherglaser n. 1–12.	60.00
One kiste embellage	7.00
Twenty-six einselzkistchen	11.60
Fifty salze becherglaser n. 1–10	100.00
Fifty einselzkisten	17.50
One kiste embellage	8.00
Fifty-five st. retorten mit stopsel, 1,000 qr.	20.90
One kiste embellage	8.00
One hundred and ten st. retorten mit stopsel, 250 gr.	33.00
One kiste embellage	8.00
Thirty ko. cylinderrohren n. 12-16	30.00
Six st. sicherheitsrohren m. 4 kugeln. No. 586	2.10
Thirteen st. sicherheitsrohren m. 2 kugeln, No. 586 Six st. sicherheitsrohren m. 1 kugeln, No. 586	2.60
Six at aichamhaitemhean m. 1 kmaaln. No 598	1.08
One kiste embellage	5.00
One hundred salze becherglaser n. 1-5	1.50
One kiste embellage	6.00
Twenty-ne st preneratongleser m rend	8.40
One hundred and seventu-six at meneraton deser m rend	44.00
One kiste embellage. One hundred salze becherglaser n. 1-5 One kiste embellage. Twenty-one st. praparatenglaser m. rand One hundred and seventy-six st. praparatenglaser m. rand One kiste embellage	7.00
Found t when mit stongel 5.000 av	7.20
Three of metaster mit stopset, 0,000 qr.	4.50
Company for patenting mit stopped, 4,000 (c.	20.25
One kiste embellage  Four st. retorten mit stopsel, 5,000 qr.  Three st. retorten mit stopsel, 4,000 qr.  Seventy-five retorten mit stopsel, 200 qr.	
One kiste emberiage	9.50
One kiste embellage Sixty-five st. retorten mit stopsel, 500 qr.	24.70
One kiste embellage Thirty st. reagirkeletn mit ausguss, 25 cm. f.	9.00
Thirty st. reagirkeicin mit ausguss, 20 cm. i.	10.50
	5.25
Twenty-five st. reagirkelctn, 15 cm. hoch Twenty-six st. reagirkelctn, 10 cm. hoch	5.00
Twenty-six st. reagirkeletn, 10 cm. hoch	4.16
Sixty st. kochflaschen, 100 qr.	3.60
Sixty st. kochflaschen, 100 qr. One kiste embellage Forty-two st. retorten mit stopsel, 750 qr. One kiste embellage Twenty-five st. retorten mit stopsel, 750 qr.	7.00
Forty-two st. retorten mit stopsel, 750 qr.	29.40
One kiste embellage	8.00
Twenty-five st. retorten mit stopsel, 750 qr.	17.50
	8.00
One kiste embellage Forty st. retorten mit stopsel, 250 qr. Twenty-two st. retorten mit stopsel, 60 qr. Fifty st. retorten mit stopsel, 200 qr. Thirty st. kochflaschen, 100 qr. One kiste embellage Thirty st. retorten mit stopsel, 10,000 qr. Siy st. retorten mit stopsel, 10,000 qr.	8.00
Forty st. retorten mit stopsel, 250 qr.	12.00
Twenty-two st. retorten mit stopsel, 60 qr.	3.96
Fifty st. retorten mit stopsel, 200 qr.	13.50
Thirty st. kochflaschen, 100 qr.	1.80
One kiste embellage	8.00
Thirty st, retorten mit stopsel, 10,000 gr.	3.75
Six st. retorten mit stopsel, 6,000 gr.	13.20
Twenty st. retorten mit stopsel. 750 gr.	14.00
One kiste embellage	9.50
Six st. retorten mit stopsel, 6,000 qr.  Twenty st. retorten mit stopsel, 750 qr.  One kiste embellage One hundred st. reagirglaser, 5 cm. lang 6 mm. d'cm.	.75
One hundred st. reagirglaser, 5 cm. lang 10 mm. d'cm.	1.00
One hundred st. reagirglaser, 5 cm. lang 13 mm. d'cm.	1.20
One hundred st. reaginglaser, 5 cm. lang 16 mm. d'cm.	1.40
One hundred st. reaginglaser, 5 cm. lang 20 mm. d'cm.	1.50
One hundred at reaginglaser 8 cm lang 8 mm d'em	1.00
One hundred st. reagirglaser, 8 cm. lang 6 mm. d'cm. One hundred st. reagirglaser, 8 cm. lang 10 mm. d'cm.	1.20
One hundred st. reaginglaser, 8 cm. lang 18 mm. d'cm.	1.30
One hundred at reagrigulater, 8 cm, lang 16 mm, d'em	1.50
One hundred st. reagirglaser, 8 cm. lang 16 mm. d'cm One hundred st. reagirglaser, 8 cm. lang 20 mm. d'cm	1.70
The hundred at maginal ages 10 cm. lang 20 mm. d cm.	0.00
Two hundred st. reaginglaser, 10 cm. lang 11 mm. d'cm.	2.00
Two hundred st. reaginglaser, 10 cm. lang 13 mm. d'cm.	3.20 4.00
Two hundred st. reaginglaser, 10 cm. lang 16 mm. d'cm. Two hundred st. reaginglaser, 10 cm. lang 20 mm. d'cm. Two hundred st. reaginglaser, 10 cm. lang 20 mm. d'cm. Two hundred st. reaginglaser, 12 cm. lang 10 mm. d'cm. Two hundred st. reaginglaser, 12 cm. lang 13 mm. d'cm. Two hundred st. reaginglaser, 12 cm. lang 13 mm. d'cm.	
Two numered st. reaginglaser, 10 cm. lang 20 mm. d'cm.	5.00
1 wo nundred st. reagirgiaser, 10 cm. lang 20 mm. d'cm.	6.00
Two nundred st. reagirglaser, 12 cm. lang 10 mm. d'cm.	8.60
Two nunared st. reagirglaser, 12 cm. lang 13 mm. d'cm.	4.00
	4.40
Two hundred st. reagirglaser, 12 cm. lang 20 mm. d'cm	6.00
Two hundred st. reagirglaser, 15 cm. lang 13 mm. d'cm.	4.40
One kiste embellage	6.00
Four einselzkisten Three st. retorten mit stopsel, 10,000 qr.	6.00
Three st. retorten mit stopsel, 10,000 qr.	11.25

Three st. retorten mit stopsel, 8,000 qr	M.9.60	
Three st. retorten mit stopsel, 8,000 qr	14.70	
One kiste embellage	9.50	
One kiste embellage One hundred st. reagirglaser, 15 cm. lang 28 mm. d'cm.	3.90	
Sixty-four st. reagirglaser, 15 cm. lang 33 mm. d'cm.	2.80	
	B 90	
Two handred st. leagning aser, 10 cm. lang 20 mm. u cm.	10.20	
Four hundred st. reaging laser, 15 cm. lang to mm. d cm.	10.80	
One nundred st. reagirgiaser, 20 cm. lang 33 mm. d'cm	6.00	
One nundred st. reaginglaser, 20 cm. lang 28 mm. d'cm.	5.00	
Two hundred st. reagirglaser, 12 cm. lang 28 mm. d'cm	7.00	
Twenty-five st. reaginglaser, 25 cm. lang 35 mm. d'cm	2.25	
Four hundred st. reaginglaser, 15 cm. lang 16 mm. d'cm.  One hundred st. reaginglaser, 20 cm. lang 33 mm. d'cm.  One hundred st. reaginglaser, 20 cm. lang 26 mm. d'cm.  Two hundred st. reaginglaser, 20 cm. lang 28 mm. d'cm.  Twenty-five st. reaginglaser, 25 cm. lang 35 mm. d'cm.  Twenty-five st. reaginglaser, 30 cm. lang 30 mm. d'cm.	2.50	
	8.00	
Twenty-six st. trichterrohren, Huttentrichter	6.00	
Fifty-five st. trichterrohren Glockentrichter	8.25	
Eleven st. sicherheilsrohren ohne K, No. 586.  Eleven st. sicherheilsrohren mit 2 k., H.	1.65	
Eleven at sicherheilerehren mit 2 k H	3.63	
Flavon et sicharhailsrohen mit 1 b H		
Eleven st. sicherheilsrohren mit 1 k., H. Eleven st. sicherheilsrohren ohne k., H.	2.10	
Eleven st. stenerhensrohren onne k., H.	2.75	,
Twenty-five trichterrohren, Huttentrichter Two hundred st. kugelrohren aus schwerschmelz, B	5.00	
Two hundred st. kugelrohren aus schwerschmelz, B	40.00	
Fifty st. reagirglaser, 25 cm. lang 30 mm. d'cm.	4.00	
Fifty st. reaginglaser, 25 cm. lang 25 mm, d'cm.	3.00	
Twenty-six st, reaginglaser, 25 cm, lang 40 mm, d'cm,	3.12	•
Two hundred st. reagirglaser, 20 cm, lang 20 mm, d'cm.	8.09	
Two hundred st. reagirglaser, 20 cm. lang 20 mm. d'cm. Twenty-five st. reagirglaser, 30 cm. lang 25 mm. d'cm. Thirteen st. reagirlaser, 30 cm. lang 35 mm. d'cm.	2.25	
Thirteen st reagislaser 20 cm lang 25 mm dem	1.56	
One best on hellinger, or clin lang or min, u clin.		
One kiste emberiage	8.00	
One kiste embellage Fifty ko. massive stabe, 10 mm. d'cm. One kiste embellage	50.00	
One kiste embellage	3.50	
One st. retorte m. st., 5,000 qr.  Three st. retorte m. st., 4,000 qr.  Four st. retorte m. st., 200 qr.	1.80	
Three st. retorte m. st., 4,000 gr.	4.50	
Four st. retorte m. st., 200 gr.	1.08	
Thirty-five st. retorte m. st., 100 ar.	7.00	
One hundred and twenty st kochflaschen 100 or	7.20	
Fifty five at reagingleson 15 am lang 40 mm d'am	3.30	
Thiston at magnetical 20 cm lang 40 mm dom	1.95	
Thirty-five st. retorte m. st., 100 qr. One hundred and twenty st. kochflaschen, 100 qr. Fifty-five st. reagirglaser, 15 cm. lang 40 mm. d'cm. Thirteen st. reagirglaser, 30 cm. lang 40 mm. d'cm.		•
One kiste embellage	8.00	
Fifteen st. trichter, 21 cm. d cm.	6.75	
Fifteen st. trichter, 16 cm. d'cm. Fifty-two st. trichter, 7 cm. d'cm.	3.75	
Fifty-two st. trichter, 7 cm. d'cm	4.16	
One kiste embellage One hundred and fifteen st. trichter, 10 cm. d'cm.	8.00	
One hundred and fifteen st. trichter, 10 cm, d'cm,	15.52	
Fifteen st. trichter, 18 cm. d'cm.	5.40	
One kiste embellage	8.00	
One kiste embellage Sixty-five st. gascutbindungsflaschen, 500 qr. Three st. woulfsche flaschen m. 3 ft., 3,000 qr.	19.50	
Three at would select a garden m 2 ft 2000 as	6.60	
The est would sole has been more of 9,000 cm		
Two st. woulfsche flaschen m. 2 ft., 2,000 qr. Two st. woulfsche flaschen m. 2 ft., 3,000 qr. One hundred and fifteen st. trichter, 5 cm. d'cm.	3.00	
Two st. would sche has chen in. 2 it., 8,000 qr.	4.00	
One hundred and lifteen st. trichter, 5 cm. d'cm.	8.05	
One hundred st. trichter, 5 cm., d'cm	6.00	
Fifty-two st. trichter, 7 cm. d'cm.	4.16	
One hundred st. trichter, 5 cm., d'cm.  Fifty-two st. trichter, 7 cm. d'cm.  Twenty-five st. trichter, 8 cm. d'cm.	2.50	
One kiste embellage Forty-two salze becherglaser, Nos. 1-5 Two hundred salze becherglaser, Nos. 1-8	8.00	
Forty-two salze becherglaser, Nos. 1-5	31.50	
Two hundred salze becherglaser Nos. 1-3	76.00	
One kiste embellage	6.00	
One hundred and thirty at preparaton glasor m wand 100 60 mm	32.50	
One kiste embellage		
One nundred and twenty-nve st. trichter, 8 cm. d'cm.	12.50	
Thirty-five st. trichter, 13 cm. d'cm.	7.00	
One kiste embellage	8.00	
м.	2,478.12	
Beglaubigungsgekuhren	10.70	
Gebuhren agenten	1.40	
-		
M.	2,490.82	\$604 02
Bill of James R. McDonald & Co.:	_,	+002 02
Freight paid on forty-seven cases glassware from Gehlberg to Ham-		
hara Cormony	140 70	
burg, Germany	. TAO. 10	
Carvage and snipping charges	05.00	
Forwarding commission	70.50	
Postage and petties	1.50	
		a- a-
M	[. 276.30	67 <b>0</b> 0

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Bill of Samuel Stanton, in pounds, shillings, and pence; total in dol				
lars and cents:				
Two thermometers, with single cylinder bulb, graduated stems, 40 cm. long; one reading from 5° to 15° centl., and the other from 13° to 33°	£	5.	d.	
centi. One thermometer with double cylinder bulb and means of adjusting	6	0	0	
mercury, with 40 cm. divided stem, embracing 3° or 4° centl., divided				
into arbitrary divisions of cms. and mms.	6	0	0	
One mahogany case for same	Я	15 0	Ô	
One Brown's calibrating apparatus One copper calorimeter jacket	4	4	Ŏ	
One copper calorimeter jacket	5	0 15	0 6	
Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270				
Tin lined case  Three ounces 680 platinum calorimeter, 620 platinum stirrer, and 270 platinum gauge  Single stirring apparatus with electro-magnetic motion	18	10	6	
Packing case	1	ŏ	6	
Consular invoicesCarriage to Liverpool		13 7	0 6	
Bills of lading and postage  Dues, entries, etc.		2	6	
Dues, entries, etc.	,	5	6 0	
Freight to San Francisco Agency and insurance Sundry expenses	-	15	6	
Sundry expenses Commission		16	9	
Commission	_		_0 	
Town on welfmultoner	63	10		•
Less on packing boxes.		10 ——	_	
Control II	63	0	,3	\$308 48
Freight on sixty-six packages from Hamburg to San Francisco—Wm. Wo	v. I	ree & C	a_ %.	20 00 170 00
State toll on same—Wm. Wolff & Co.				35
Custom House entry on seventy-two cases chemicals and glassware—G. Freight on sixty-six packages from Hamburg to San Francisco—Wm. Wostate toll on same—Wm. Wolff & Co.  Three Becker balances and weights—Justinian Caire Freight and expressage—Patterson & Co.  Two hundred and eighteen pounds aqua ammonia—San Francisco Gaslight Co.  One dozen blank books—Le Count Bros.  One dozen blank books—Le Count Bros.  One dozen blank books—Le Count Bros.				191 10 41 00
Two hundred and eighteen pounds aqua ammonia—San Francisco Gasl	gh	t Co	). <u>.</u>	17 45
Two carboys—San Francisco Gaslight Co		··		. 5 00 50
One dozen blank books—Le Count Bros.				60
One half dozen memorandum books—Le Count Bros One half dozen memorandum books—Le Count Bros				4 00
One copying press—Le Count Bros One bottle ink—Le Count Bros				10 00 1 00
One-quart mucilage—Le Count Bros.				50
One box rubber bands—Le Count Bros.		<u>.</u> .		1 00
One box pens—Le Count Bros.  Two baskets—Le Count Bros.  Two carboys muriatic acid—Golden City Chemical Works.		· ·		1 50
Two carboys muriatic acid—Golden City Chemical Works		· <b>-</b>	<b>-</b>	12 40
One carboy sulphuric acid—Golden City Chemical Works————————————————————————————————————	0	. <b></b> .		4 18 34 65
Expressage—Patterson & Co				1 00
Insurance—Canton Insurance Office Salaries for the year ending June 30, 1891				2 56 12,506 05
,			•	
To University Site Improvements.				\$17,557 31
				<b>\$</b> 1 50
Splicing pole to wagon—Nelson & McLellan Labor, as per June payroll				301 00
One gallon linseed oil—J. McClain————————————————————————————————————				1 25 75
Five cans axle grease—J. McClain  Twenty-five sacks rolled barley—B. E. Hickok & Co.				22 75
Nineteen sacks bran—B. E. Hickok & Co. Two sacks oil meal—B. E. Hickok & Co.				8 20 2 35
Twelve pieces 6-inch glazed pipe—Savage Bros.	_	\$7	20	
Less 50 per cent		3	60 —	3 60
One half dozen hoes—Savage Bros.  Repairing Oxford-Street crossing—J. J. Dunn				2 75
Repairing Oxford-Street crossing—J. J. Dunn				100 00 75
Renairing rake—Nelson & McLellan				2.75
One bolt—Nelson & McLellan	<b></b> -			15 4 00
One bolt—Nelson & McLellan  Eight new shoes—Nelson & McLellan  Four iron wedges repaired—Nelson & McLellan				1 00
Repairing saw—Nelson & McLellan				1 50

Labor, as per July payroll Labor, as per August payroll Insurance on hay for thirty days—New Zealand Co. Baling thirteen and one fourth tons hay—W. Keith Brimstone—Kelsey Bros. Sharpening three picks—Nelson & McLellan Sharpening one pick—Nelson & McLellan Steeling one pick—Nelson & McLellan Eight new shoes—Nelson & McLellan One case Star oil—Loseph McClellan		\$224 50
Labor, as per August payroll		222 00
Insurance on hay for thirty days—New Zealand Co.		1 20
Baling thirteen and one fourth tons hay—W. Keith		26 40
Shamaning three picks. Nelson & McLellen		15
Sharpening one pick. Nelson & McLellan		45 15
Steeling one pick—Nelson & McLellan		15 75
Eight new shoes—Nelson & McLellan		4 00
One case Star oil—Joseph McClain		2 80
Labor, as per September payroll Labor, as per September payroll Nine hundred and twenty pieces 8-inch drain pipe—Savage Bros. Two pieces 18x18 Y branches—Savage Bros. Five pieces 18x12 T branches—Savage Bros. One piece 18x10 T branch—Savage Bros. Six pieces 12-inch pipe—Savage Bros.		388 00
Labor, as per October payroll		291 50
Nine hundred and twenty pieces 8-inch drain pipe—Savage Bros	<b>\$1,</b> 380 00	
Two pieces 18x18 Y branches—Savage Bros	7 50	
Five pieces 18x12 T branches—Savage Bros.	30 00	
One piece 18x10 T branch—Savage Bros.	3 00	
Six pieces iz-inch pipe—Savage Bros.	4 50	
	<b>91</b> 405 00	
Less 20 per cent	285 00	
2000 -v Por voncer		1,140 00
Ten barrels Portland cement—Remillard Brick Co	<b></b> -	42 50
One hoe—Savage Bros.		40
One hoe—Savage Bros.  Repairing one half of Oxford-Street culvert—J. J. Dunn.		149 00
Two Champion iron wheelbarrows—Sayage Bros.		6 50
Two garden iron wheelbarrows—Savage Bros. Four barrels Portland cement—Remillard Brick Co.		11 00
Four barrels Portland cement—Remillard Brick Co.		17 00
Sharpening one share—Nelson & McLellan		25
Repairing cart—Nelson & McLellan Repairing chains—Nelson & McLellan		14 50
Repairing chains—Neison & McLellan Sharpening four picks—Nelson & McLellan Repairing cart—Nelson & McLellan Eight new shoes and repairing brake—Nelson & McLellan Labor, as per November payroll One dozen pick handles—Savage Bros. Payment on account of sidewalks—W. D. Perine Bill of Oakland Paving Co. for macadamizing and grading nort Allston Way.		60
Reneiring cortNelson & McLellan		60 15 50
Fight new shoes and renairing brake—Nelson & McLellan	·· • • • • • • • • • • • • • • • • • •	5 00
Labor, as per November payroll		271 50
One dozen pick handles—Savage Bros.		3 00
Payment on account of sidewalks—W. D. Perine		750 00
Bill of Oakland Paving Co. for macadamizing and grading nort	h half of	
Chadina 1 650 on his words	@1 070 50	
Chadina 1 650 on his words	@1 070 50	
Chadina 1 650 on his words	@1 070 50	
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	@1 070 50	2 896 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet Engineer's fees on 1,170.29 feet	\$1,072 50 136 68 2,418 92 58 51	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet. Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred feet 1-inch wrought-iron pipe	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet. Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred feet 1-inch wrought-iron pipe	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet. Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred feet 1-inch wrought-iron pipe	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 14-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One socket wrench	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00 11 44 44 44 44 10 3 00 6 00 3 00	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 14-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One socket wrench	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00 11 44 44 44 44 10 3 00 6 00 3 00	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 14-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One socket wrench	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00 11 44 44 44 44 10 3 00 6 00 3 00	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 1\frac{1}{2}-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00 11 44 44 44 44 10 3 00 6 00 3 00	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 1\frac{1}{2}-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 21 00 21 00 1 35 45 18 45 11 44 44 10 3 00 11 44 44 10 3 00 18 56 566 50	3,686 61
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 1\frac{1}{2}-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 21 00 21 00 1 35 45 18 45 11 44 44 10 3 00 11 44 44 10 3 00 18 56 566 50	
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 1½-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned	\$1,072 50 136 68 2,418 92 58 51 \$425 00 21 00 21 00 1 35 45 18 00 11 44 44 10 3 00 18 50 566 50 \$1,156 34 13 63	1,142 71
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 1½-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned	\$1,072 50 136 68 2,418 92 58 51 \$425 00 21 00 21 00 1 35 45 18 00 11 44 44 10 3 00 18 50 566 50 \$1,156 34 13 63	1,142 71 289 50
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 1½-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 45 18 45 11 44 44 10 3 00 6 00 3 00 18 50 66 50 \$1,156 34 13 63	1,142 71 289 50 1 50
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 1½-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan One plate and clamps—Nelson & McLellan One share pointed and patched—Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 45 18 00 11 44 44 10 3 00 18 50 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe. Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 14-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 21 00 1 35 4 40 11 44 44 44 44 44 44 44 1 40 6 00 3 00 6 00 3 00 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe. Eight pieces 3-inch pipe Four hundred and thirty pounds fittings. Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 14-inch wrought-iron pipe. Six hundred and thirty pounds pig lead Three barrels coke. One hundred pounds gaskett. One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan Repoirt to graden shaers. Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00 11 44 44 14 44 14 44 14 50 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe. Eight pieces 3-inch pipe Four hundred and thirty pounds fittings. Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 14-inch wrought-iron pipe. Six hundred and thirty pounds pig lead Three barrels coke. One hundred pounds gaskett. One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan Repoirt to graden shaers. Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 18 00 11 44 44 14 44 14 44 14 50 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00 1 00
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 14-inch wrought-iron pipe. Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett. One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One share pointed and patched—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan One share sharpened—Nelson & McLellan One dozen files—Savage Bros. Bill of W. D. Perine—partial payment on account of sidewalks	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 45 18 00 11 44 44 10 3 00 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00 1 00 25 25 1 50 928 21
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 14-inch wrought-iron pipe. Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett. One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One share pointed and patched—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan One share sharpened—Nelson & McLellan One dozen files—Savage Bros. Bill of W. D. Perine—partial payment on account of sidewalks	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 45 18 00 11 44 44 10 3 00 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00 25 25 1 50 928 21 10 50
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 14-inch wrought-iron pipe. Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett. One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One share pointed and patched—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan One share sharpened—Nelson & McLellan One dozen files—Savage Bros. Bill of W. D. Perine—partial payment on account of sidewalks	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 45 18 00 11 44 44 10 3 00 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00 25 25 1 50 928 21 10 50 4 00
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 14-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan One share pointed and patched—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan One share sharpened—Nelson & McLellan One dozen files—Savage Bros. Bill of W. D. Perine—partial payment on account of sidewalks Building gutters—J. J. Dunn Eight new shoes—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 21 00 1 35 45 18 00 11 44 44 10 3 00 6 00 3 00 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00 1 00 25 25 1 50 928 21 10 50 4 00 2 50
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe. One hundred and four feet 1½-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan One share pointed and patched—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan One dozen files—Savage Bros. Bill of W. D. Perine—partial payment on account of sidewalks Building gutters—J. J. Dunn Eight new shoes—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 28 00 1 35 45 18 40 11 44 44 10 3 00 13 50 6 00 3 00 13 53 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00 25 1 50 928 21 10 50 4 00 2 50 3 00
Grading 1,650 cubic yards Curbing 1,139 linear feet Macadamizing 26,150.52 square feet. Engineer's fees on 1,170.29 feet  Bill of Oakland Gas Co.: Eighty-two pieces 4-inch pipe One piece 8-inch pipe Eight pieces 3-inch pipe Four hundred and thirty pounds fittings Two 3-inch plugs Three pounds wrought-iron fittings One hundred feet 2-inch wrought-iron pipe One hundred and four feet 14-inch wrought-iron pipe Six hundred and thirty pounds pig lead Three barrels coke One hundred pounds gaskett One socket wrench Drayage One hundred and eighty-one days' labor  Less pipe and fittings returned  Labor, as per December payroll One plate and clamps—Nelson & McLellan One share pointed and patched—Nelson & McLellan One share pointed, and eight bolts—Nelson & McLellan One share sharpened—Nelson & McLellan One share sharpened—Nelson & McLellan One dozen files—Savage Bros. Bill of W. D. Perine—partial payment on account of sidewalks Building gutters—J. J. Dunn Eight new shoes—Nelson & McLellan Four rods, four braces, two plates, two pins—Nelson & McLellan	\$1,072 50 136 68 2,418 92 58 51 \$425 00 10 00 21 00 1 35 46 40 11 44 44 14 44 14 44 14 44 13 00 566 50 \$1,156 34 13 63	1,142 71 289 50 1 50 1 00 1 00 25 25 1 50 928 21 10 50 4 00 2 50

Payment in full for sidewalks—W. D. Perine	\$559 41
Payment in full for sidewalks—W. D. Perine	33 30
Repairing steps North and South Halls—Robert McKillican	475 00
One thousand pounds rolled barley—Stewart & Trowbridge	17 75
Five hundred nounds bron—Stewart & Trowbridge	6 50
Advertising for hids for Campus—San Francisco "Examiner"	15 40
Five hundred pounds bran—Stewart & Trowbridge  Advertising for bids for Campus—San Francisco "Examiner"  Repairing squirrel smoker—J. M. McNamara	2 00
One Y branch—Patrick Begley	2 00
Two elbows—Patrick Regley 64	
Two elbows—Patrick Begley 64 Sixteen feet sewer pipe—Patrick Begley 608	
District for the paper 1 district Dogice,	
_	
Less	
	4 00
Sixteen pieces sewer pipe—Savage Bros.  Advertising for Campus—"Tribune" Publishing Co.  Labor, as per February payroll.  Advertising for Campus—San Francisco "Chronicle"  Grading Campus—James McMullen  Grading Campus—James McMullen	3 36
Advertising for Campus—"Tribune" Publishing Co	13 35
Labor, as per February payroll	173 25
Advertising for Campus—San Francisco "Chronicle"	22 15
Grading Campus—James McMullen	44 00
Grading Campus—James McMullen	40.00
Labor, as per March payroll	179 00
Eight new shoes—Nelson & McLellan	4 00
Repairing wagon—Nelson & McLellan	4 25
Forty-five and one half hours' work on map of grounds—W. C. Allen	13 65
Labor, as per March payroll.  Eight new shoes—Nelson & McLellan Repairing wagon—Nelson & McLellan Forty-five and one half hours' work on map of grounds—W. C. Allen Two copies typewriting contract for Campus—Grace Mahoney.  Grading Campus—Jas. McMullen Twenty-seven hours work computing earthwork on Students' Campus—E. A Ryler	75
Grading Campus—Jas. McMullen	16 00
Twenty-seven hours work computing earthwork on Students' Campus—E. A	
Byler	8 10
Byler Grading Campus—Jas. McMullen	120 00
Labor, as per April payroll One share pointed and one bolt to gate—Nelson & McLellan Plate for furnace—Nelson & McLellan	255 80
One share pointed and one bolt to gate—Nelson & McLellan	1 25
Plate for furnace—Nelson & McLellan	50
Repair of harrow—Nelson & McLellan One hundred and forty-three and one half hours' work on map—W. C. Allen Labor as watchman—John Davis One half dozen mowing machine knives—Deere Implement Co.	50
One hundred and forty-three and one half hours' work on map—W. C. Allen	43 05
Labor as watchman—John Davis	3 00
One half dozen mowing machine knives—Deere Implement Co	50
	37 00
One thousand pounds bran—Stewart & Trowbridge Oil cake—Stewart & Trowbridge One shovel share sharpened—Nelson & McLellan Two pairs hinges, twelve bolts, twelve washers—Nelson & McLellan	10 5 <b>0</b>
Oil cake—Stewart & Trowbridge	1 95
One shovel share sharpened—Nelson & McLellan	50
Two pairs hinges, twelve bolts, twelve washers—Nelson & McLellan	3 00
One hasp, two staples—Nelson & McLellan	75
One hasp, two staples—Nelson & McLellan Four one half rims—Nelson & McLellan	7 00
Two spokes—Nelson & McLellan	50
Two tires set—Nelson & McLellan	2 00
Singletree repaired—Nelson & McLellan	50
One third dozen grass scythes—Dunham, Carrigan & Hayden Co	4 00
One sixth dozen natent snaths—Dunham Carrigan & Hayden Co	1 50
One half dozen hav rakes—Dunham, Carrigan & Hayden Co.	3 00
	3 15
Computing earthwork for Campus—E. A. Byler	3 30
Computing earthwork for Campus—E. A. Byler.  Grading Campus—Jas. McMullen Labor, as per May payroll  Ninety-five and one half hours' work on map of grounds—W. C. Allen One case Elaine oil—J. McClain  Salaries for the year ending June 30, 1891	<b>242</b> 75
Labor, as per May payroll	295 40
Ninety-five and one half hours' work on map of grounds—W. C. Allen	28 95
One case Elaine oil—J. McClain	1 50
Salaries for the year ending June 30, 1891	<b>362 92</b>
	<b>\$</b> 13,377 32
To Fuel.	
Tig to Will to a 1 Donton Good Go	9701 40
Fifty tons Wellington coal—Renton Coal Co.	\$701 40
Thirteen tons Anthracite coal—Renton Coal Co. One hundred and forty-five grain sacks—Renton Coal Co. Thirty-nine gunnie sacks—Renton Coal Co.	107 70
One nundred and forty-five grain sacks—Renton Coal Co.	7 35
Thirty-nine gunnie sacks—Renton Coal Co	3 90
•	2000 25
The Francisco and Description	\$820 35
To Equipment and Repairs.	
One rack for hauling chairs—Nelson & McLellan	\$14 00
Painting huilding. George C. Gottung	660 00
Painting building—George C. Gottung  Repairing roof of Library building—W. B. Glenn	75 00
Renairing blackhoardsW H Andrews & Co.	350 00
Renairing blackhoardsW. H. Andrews & Co.	32 00
Painting huildings—George C. Gottung	450 00
Repairing blackboards—W. H. Andrews & Co Repairing blackboards—W. H. Andrews & Co Painting buildings—George C. Gottung Twenty dozen pairs 2-inch iron butts—Savage Bros. Two gross hat hooks—Savage Bros.	5 50
Two gross hat hooks—Savage Bros.	2 75

One gross porcelain knobs—Savage Bros. One gross japanned buttons Thirty-six chairs—California Furniture Co.	\$1.50
One gross japanned buttons	1 00
Thirty-six chairs—California Furniture Co.	8L 00
Repairing roof—John J. Menges.	<b>12 0</b> 0
Two pounds solder—John J. Menges	40
One sheet tim—John J. Menges	10
Thirty-six chairs—California Furniture Co. Repairing roof—John J. Menges. Two pounds solder—John J. Menges One sheet tin—John J. Menges Lettering office door—J. A. Johnson Labor for month of July—John Davis. Five hundred feet 3x4 redwood—Henry W. Taylor Five hundred feet 1x6 redwood—Henry W. Taylor. Five hundred feet 2x4 pine—Henry W. Taylor.  Five hundred feet ½x12 redwood—Henry W. Taylor.  Five hundred feet ½x12 redwood—Henry W. Taylor.  Mill work—Henry W. Taylor.  Cartage—Henry W. Taylor.  Five hundred feet 1x3 redwood—Henry W. Taylor.  Five hundred feet 1x3 redwood—Henry W. Taylor.  Five hundred feet 1x12 redwood—Henry W. Taylor.  Five hundred feet 1x12 redwood—Henry W. Taylor.  Five hundred feet 1x3 redwood—Henry W. Taylor.  Five hundred feet 1x8 pine—Henry W. Taylor.  Five hundred feet 1x8 pine—Henry W. Taylor.	6 00
Labor for month of July—John Davis.	54 00
Five hundred feet 3x4 redwood—Henry W. Taylor	10 00
Five hundred feet 1x6 redwood—Henry W. Taylor.	20 00
Nine hundred end forty eight fort 9 12 redword Henry W Toylor	
Five hundred and forty-eight feet 2212 fed wood—Henry W. 12ylor	36 20
Mill work - Hoper W Toulor	10 25
Cartage Honer W Taylor	2 00
Give hundred feet 1 v3 redwood. Henry W Taylor	
Five hundred feet 1x12 redwood—Henry W. Taylor	25 00
One thousand and fifty-two feet 2x12 redwood—Henry W. Taylor	26 30
Five hundred feet 1x3 pine—Henry W. Taylor	12 50
Five hundred feet 1x3 pine—Henry W. Taylor One thousand feet 1x4 T. and G. pine—Henry W. Taylor Three hundred feet 2x3 T. and G. pine—Henry W. Taylor Five hundred feet 1x4 T. and G. and B. redwood—Henry W. Taylor	34 00
Three hundred feet 2x3 T. and G. pine—Henry W. Taylor	6 90
Five hundred feet 1x4 T. and G. and B. redwood—Henry W. Taylor	17 00
Labor in North Hall—J. M. McNamara Seventy-five pounds 1½-inch lead pipe—J. M. McNamara Twenty-four feet 3-inch galvanized pipe—J. M. McNamara	11 35
Seventy-five pounds 1½-inch lead pipe—J. M. McNamara	7 00
Twenty-four feet 2-inch galvanized pipe—J. M. McNamara	2 40
Five % inch fittings—J. M. McNamara. Four pounds solder—J. M. McNamara.	£0
Four pounds solder—J. M. McNamara	1 00
Lining sink—J. M. McNamara	6 00
Lining sink—J. M. McNamara Twelve feet 3-inch spiral gas leader—J. M. McNamara Repairing basin—J. M. McNamara.	1 80
Repairing basin—J. M. McNamara.	1 00
Une sack charcoal—J. M. McNamara	95
Labor in North Hall—J. M. McNamara	12 35
Labor in North Hall—J. M. McNamara  Twenty feet 2-inch cast-iron pipe—J. M. McNamara  Branch and bend—J. M. McNamara	2 00
Branch and bend—J. M. McNamara	1 05
One globe valve, IXI J. M. McNamara	1 95
Thirty-nve pounds 14-inch lead pipe—J. M. McNamara	8 50
Seven pounds solder—J. M. McNamara	1 75
One globe valve, 1x13—J. M. McNamara.  Thirty-five pounds 12-inch lead pipe—J. M. McNamara.  Seven pounds solder—J. M. McNamara.  Two by two-inch brass ferrules—J. M. McNamara.  One sack charcoal—J. M. McNamara.	35 95
Cement—J. M. McNamara	50 50
One 11 inch two	1 10
One 1½-inch trap	50
Painting huildings Goo C Gottung	161 25
Sixty-six yards Rrussels cornet Ing Fredericks & Co	99 00
Thirty-three and one third yards Brussels carpet—Jos. Fredericks & Co.	50 00
Painting buildings—Geo. C. Gottung———————————————————————————————————	9 00
Two oak table desks—Jos. Fredericks & Co.  Twenty arm chairs, in leather—Jos. Fredericks & Co.	70 00
Twenty arm chairs, in leather—Jos. Fredericks & Co	210 00
Ten oak tables—(leo. H. Fuller	95 00
One oak chair—Geo. H. Fuller	10 00
One hat rack—Geo. H. Fuller	10 00
One bookcase—Geo. H. Fuller One half dozen cuspidors—Payot, Upham & Co Painting engine house and boiler house—Geo. C. Gottung	20 00
One half dozen cuspidors—Payot, Upham & Co	3 75
Painting engine house and boiler house—Geo. C. Gottung	40 00
Painting agricultural building—Geo. C. Gottung Painting observatory—Geo. C. Gottung Painting horse shed—Geo. C. Gottung	100 00
Painting observatory—Geo. C. Gottung	75 00
Painting horse shed—Geo. C. Gottung	35 00
Painting lockers, etc.—Geo. C. Gottung	54 90
Repairing chimneys, South Hall—Geo. C. Gottung.	5 00
Material for eighty new lockers—Nienaus Bros. & Co	118 00
Twenty feet 3x4 gutters—Niehaus Bros. & Co.  Crown molding—Niehaus Bros. & Co.  Fifty pounds putty—E. G. Buswell & Co.  Two rolls border—H. Richards	1 20
Crown molding—Nienaus Bros. & Co.	40
First pounds putty—E. G. Buswell & Co.	2 50
One yard felt—W. & J. Sloane & Co.	75 1 25
Five yards gimp—W. & J. Sloane & Co.	25
One dozen locks—Savage Bros.	3 00
One lock—Savage Bros.	15
One brush—E. G. Buswell & Co.	50
Moving stove—J. M. McNamara	2 50
Zinc for stove—J. M. McNamara	1 75
Damper for stove—J. M. McNamara	25
Zinc flashing—J. M. McNamara	1 00
Isinglass-J. M. McNamara	25
Isinglass—J. M. McNamara One galvanized drum—J. M. McNamara	3 80

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Expressage—Patterson & Co. One zinc oil can—The Samuel Hill Co.	<b>\$</b> 9	25
One zinc oil can—The Samuel Hill Co.	•	20
Pleatering in North Hell H I Whitney	90	
One zinc oil can—The Samuel Hill Co.  Plastering in North Hall—H. L. Whitney Four thousand cubic feet gas—Oakland Gas Co.  Sixty perforated chair seats—R. F. Osborn & Co.  Kalsomining North Hall—C. B. Rutherford.  Oiling slate on South Hall—Geo. C. Gottung Three hundred and thirty yards cocoa matting—McGovern & Cahill.  One hundred and fifteen yards cocoa matting—McGovern & Cahill. Two marble basins, waste pipe, and faucets—J. M. McNamara.  Sixteen feet stove-pipe—M. De La Montanya.  Eight feet stove-pipe—M. De La Montanya.  Four corrugated elbows—M. De La Montanya One corrugated elbow—M. De La Montanya One corrugated elbow—M. De La Montanya One damper—M. De La Montanya		00
Four thousand cubic feet gas—Oakland Gas Co	. 10	00
Sixty perforated chair seats—R. F. Osborn & Co.	14	00
Valcomining North Hall—C R Butherford		
Raisoniming North IT-11 On- C Cotton	153	
Olling state on South Hall—Geo. C. Gottung		00
Three hundred and thirty yards cocoa matting—McGovern & Cahill	222	78
One hundred and fifteen yards cocos matting—McGovern & Cahill		68
The mould beging worth nine and forests I M Monomer		
1 Wo marble basins, waste pipe, and laucets—J. M. McNamara		00
Sixteen feet stove-pipe—M. De La Montanya	5	60
Eight feet stove-pipe—M. De La Montanya	2	40
Form commented albows M. Do La Montanua		Õ
rour corrugated elbows—M. De Da Montanya.	9	
One corrugated elbow—M. De La Montanya		65
One damper—M. De La Montanya		25
One helf dev's labor M. De Le Montenue	•	$\widetilde{\mathbf{o}}$
One half day 8 labor—M. De La Montanya		
Labor—John Davis	52	00
One oak desk—Geo. H. Fuller	60	- 00
One thousand feet redwood		Ō
One thousand leet led wood—Henry W. Laylor		
Eight thousand sningles—Henry W. Taylor		-00
One corrugated enow—M. De La Montanya One damper—M. De La Montanya One half day's labor—M. De La Montanya Labor—John Davis. One oak desk—Geo. H. Fuller One thousand feet redwood—Henry W. Taylor Eight thousand shingles—Henry W. Taylor One thousand feet redwood—Henry W. Taylor One inkstand—Samuel Carson	20	00
One inkstand—Samuel Carson Painting buildings—Geo. C. Gottung Picture molding—Niehaus Bros. & Co. Two washstands—Niehaus Bros. & Co.		50
One intervaluation of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of		
Painting buildings—dec. C. dottung	623	
Picture molding—Niehaus Bros. & Co.	3	50
Two washstands—Niehaus Bros. & Co.	6	50
One myllor. Garage Pros	0	
One pulley—Savage Bros. Sash cord—Savage Bros. One dozen staples—Savage Bros. One half dozen screw eyes—Savage Bros. One dozen packages matches—J. McClain One dozen § and ½-inch caps—J. M. McNamara Two spools copper wire—Savage Bros. Molding hooks—Savage Bros. Molding hooks—Savage Bros. One jug and glass—Fred. Lautzen One iron safe—A. L. Jones & Co. Labor for month of October—James Tait One bronze lock—Dunham, Carrigan & Hayden Co. One pair butts—Dunham, Carrigan & Hayden Co. Three dozen cup locks—Dunham, Carrigan & Hayden Co. One dozen Yale latches—Dunham, Carrigan & Hayden Co. Nine dozen key blanks—Dunham, Carrigan & Hayden Co. One Empire ladder, 10-foot—G. W. Armes & Co. One dozen No. 2 Excelsior brooms—G. W. Armes & Co. One dozen floor brushes—G. W. Armes & Co.		10
Sash cord—Savage Bros.		25
One dozen stanles—Savage Bros.		10
One half down govern own Covern Drog		
One han dozen screw eyes—Savage Dros.		05
One dozen packages matches—J. McClain		50
One dozen # and 1-inch caps—J. M. McNamara		50
Two spools copper wire Savage Bros	1	Ō
Two spools copper wife bavage blos.	-	
Molding nooks—Savage Bros.		-50
One jug and glass—Fred. Lautzen		60
One iron safe—A L. Jones & Co.	500	
The first and the Code has Lorenza Maid		
Labor for month of October—James lait		00
One bronze lock—Dunham, Carrigan & Hayden Co	4	: 60
One pair butts—Dunham, Carrigan & Hayden Co.	. 2	25
The part of the Dunham Coming & Harden Co		
Three dozen cup locks—Dunnam, Carrigan & Hayden Co.		00
One dozen Yale latches—Dunham, Carrigan & Hayden Co.	22	50
Nine dozen key blanks—Dunham, Carrigan & Hayden Co.	4	50
One Empire ledder 10 feet G W Armes & Co		50
One Empire ladder, 10-1001—d. W. Armes & Oo.		
One dozen No. 2 Excelsior brooms—G. W. Armes & Co.		55
One dozen floor brushes—G. W. Armes & Co.	12	75
One degen dust brushes G W Armes & Co		08
One to let 3 and 3 decire of W. America & Co.		
One dozen floor brushes—G. W. Armes & Co. One dozen dust brushes—G. W. Armes & Co. One half dozen dustpans—G. W. Armes & Co. One half dozen fire shovels—G. W. Armes & Co. One dozen galvanized coal hods—G. W. Armes & Co.		60
One half dozen fire shovels—G. W. Armes & Co		60
One dozen galvanized coal hods—G. W. Armes & Co.	4	50
One doesn further death of W. Among & Co.		
One dozen turkey dusters—G. W. Armes & Co. Forty pounds white Castile soap—G. W. Armes & Co. One dozen galvanized iron pails—G. W. Armes & Co.		80
Forty pounds white Castile soap—G. W. Armes & Co	3	70
One dozen galvanized iron pails—G. W. Armes & Co.	4	16
One can matches—G. W. Armes & Co.		78
One can matches—G. W. Armes & Co.		
Six sponges—G. W. Armes & Co One No. 20 Bradford stove—M. De La Montanya		. 00
One No. 20 Bradford stove—M. De La Montanva	16	00
Fight joints stove-pine—M. De La Montanya		40
More annual alberta M. De Le Montania		
Two corrugated ellows—M. De La Montanya	1	. 30
One collar and damper—M. De La Montanya		30
One half sheet zinc—M. De La Montanya		78
Tabar and contage M. Da La Mantanya	9	s öö
Labor and cartage—M. De La Montanya	ē	
Two cupboard catches—Savage Bros.		20
Four pairs butts—Savage Bros.		80
Three callons vernish—E. G. Buswell & Co.	10	i õõ
The standard for hundred subject for me O-1-1-3 Cor Co		
Two thousand five numered cubic feet gas—Cakland Gas Co	6	25
Five oak Vienna chairs—Joseph Fredericks & Co.	12	50
One No. 20 Bradford stove—M. De La Montanya  Eight joints stove-pipe—M. De La Montanya  Two corrugated elbows—M. De La Montanya One collar and damper—M. De La Montanya One half sheet zinc—M. De La Montanya Labor and cartage—M. De La Montanya  Labor and cartage—M. De La Montanya  Two cupboard catches—Savage Bros.  Four pairs butts—Savage Bros.  Three gallons varnish—E. G. Buswell & Co.  Two thousand five hundred cubic feet gas—Oakland Gas Co.  Five oak Vienna chairs—Joseph Fredericks & Co.  Oiling and whitewashing brick on new Chemical Laboratory—Geo. C. Gottung.	240	
Twenty four nounds land nine. I M MoNeyes		
Twenty-four pounds lead pipe—J. M. McNamara		40
One 3-inch plain blob—J. M. McNamara		. 25
Ten feet 2-inch galvanized pipe—J. M. McNamara	1	. 00
Solder and coal—J. M. McNamara.		
		. 00
Labor on same—J. M. McNamara		38
One chair cushion—California Furniture Co	e	3 00
One chair cushion—California Furniture Co. One 8-inch hinge, hasp, and screws—A. Erlandsen.	,	ũ
One of more minger, many, and sortwo—A. Britanusen.		
One dozen key blanks-Dunham, Carrigan & Hayden Co		. 80
Three gross screw hooks—Dunham, Carrigan & Hayden Co.	1	44
One gross washers for spindle—Dunham Carrigan & Hayden Co.	_	1,
Three gross screw hooks—Dunham, Carrigan & Hayden Co. One gross washers for spindle—Dunham, Carrigan & Hayden Co. One gross knob screws—Dunham, Carrigan & Hayden Co.	_	18 60

One group blind covering Dunham Commisses & Handan Co	eΛ
One gross blued screws—Dunnam, Carrigan & Hayden Co	<b>\$</b> 0 {
One gross blued screws—Dunham, Carrigan & Hayden Co. One half dozen spindles—Dunham, Carrigan & Hayden Co. Repairing door check—Frank D. Morrill Repairing three shower baths in Gymnasium, and material—J. M. McNamara. Repairing pipe in South Hall—J. M. McNamara.	
Repairing door check—Frank D. Morrill	1
Repairing three shower baths in Gymnasium, and material—I. M. McNamara	4
Penciring nine in South Hall—I M. Manager	3
Repairing pipe in South Hair-J. M. McNamara	
Repairing pipe in South Hall—J. M. McNamara Two terra-cotta thimbles—Savage Bros. One half dozen glasses—J. McLain Repairing door checks—Frank D. Morrill Two yards enamel cloth—W. & J. Sloane & Co. One paper tacks—W. & J. Sloane & Co. One yard felt—W. & J. Sloane & Co. One No. 20 Bradford stove—M. De La Montanya. Nine joints stove-pipe—M. De La Montanya Two elbows, corrugated—M. De La Montanya	
One half dozen glasses—J. McLain	;
Repairing door checks—Frank D. Morrill	1
Two yards enamel cloth—W & I Sloane & Co	1
One penetrately W & I Cleans & Co.	
One paper tacks—w. & J. Stoane & Co.	40
One yard felt—w. & J. Sloane & Co.	1 :
One No. 20 Bradford stove—M. De La Montanya	16
Nine joints stove-pipe—M. De La Montanya	2 '
Two elbows corrugated M De La Montanya	ī:
1 wo clows, corrugated—M. De La Montanya	
One elbow, pieced—M. De La Montanya One half sheet zinc—M. De La Montanya	
One half sheet zinc—M. De La Montanya	
Damper—M. De La Montanya	
Collar—M. De La Montanya One day's labor—M. De La Montanya	
One devis labor M. De Le Montanue	3
One day's labor—M. De La Montanya	
One oak desk—George H. Fuller	40
One office chair—George H. Fuller	7
One 6-foot standing desk—George H. Fuller	18
One bookkeener's chair-George H. Fuller	5
One wordwing hedrenge Govern H Fuller	
One revolving bookcase—George H. Fuller	21
Forty brass picture hooks—Savage Bros.	1 (
One office chair—George H. Fuller One 6-foot standing desk—George H. Fuller One bookkeeper's chair—George H. Fuller One revolving bookcase—George H. Fuller Forty brass picture hooks—Savage Bros. Two dozen P. S. rod chairs—California Furniture Co.	38
Twenty-four arm rests—California Furniture Co.	16
I show for month of November	50
Manuel 101 MORINI UL MOVEMBEL	
Two o-inch boltssavage Bros.	
Two 6-inch bolts—Savage Bros. Six elbow catches—Dunham, Carrigan & Hayden Co. Two Russia fenders—Taylor Goodrich One bowl and setting—Sanitary Plumbing Co. Thirty-seven yards linoleum—McGovern & Cahill	
Two Russia fenders—Taylor Goodrich	5
One howl and setting—Sanitary Plumbing Co.	ž
Thirty saves very linelaum McGayer & Cobill	
1 mily-seven yards infoleum—medovern & Callin	35.
One Smyrna rug—McGovern & Canill	8
One Smyrna rug—McGovern & Cahill———————————————————————————————————	7
Three tables—Niehaus Bros. & Co	12
Three tables—Niehaus Bros. & Co. Four new cases—Niehaus Bros. & Co.	63
Theograph John Nichaus Dros. & Co.	
Inree small doors—Nienaus Bros. & Co.	3
Eight hundred feet white cedar—Niehaus Bros, & Co	
One hundred and fifty feet pine—Niehaus Bros. & Co.	88
One door—Niehaus Bros & Co	
Thirteen hundred on his foot cas . Oakland Gas Co	3
Thriteen number cubic feet gas—Oakland Gas Co.	
I werve nundred cubic feet gas—Oakiand Gas Co.	_3
Labor for month of December	<b>54</b>
One galvanized iron screen—M. De La Montanya	8
One half dozen cuphoard catches—A Erlandsen	
One third dozen window estables A Friendson	
One only dozen window catches—A. Edithusen	2
Four new cases—Niehaus Bros. & Co.  Three small doors—Niehaus Bros. & Co.  Eight hundred feet white cedar—Niehaus Bros. & Co.  One hundred and fifty feet pine—Niehaus Bros. & Co.  Thirteen hundred cubic feet gas—Oakland Gas Co.  Twelve hundred cubic feet gas—Oakland Gas Co.  Labor for month of December  One galvanized iron screen—M. De La Montanya One half dozen cupboard catches—A. Erlandsen One third dozen window catches—A. Erlandsen Four and one half yards duck—Neville & Co. One dozen joint butts—Savage Bros.	2
One dozen joint butts—Savage Bros.	
Four dozen screws—Savage Bros. One half dozen wardrobe hooks—A. Erlandsen	
One half dozen wardrobe hooks A Erlandsen	1
One half degen beeks and eyes A Fulcading	-
One half dozen hooks and eyes—A. Erlandsen One No. 2 Cottage Home stove—M. De La Montanya	^
One No. 2 Cottage Home stove—M. De La Montanya	9
Seven joints Russia iron pipe—M. De La Montanya	5
Three corrugated elbows—M. De La Montanya	8
One square albow—M. De La Montanya	·
One square elbow—M. De La Montanya  Damper and collar—M. De La Montanya	
pamper and contar-M. De La Montanya	_
	2
Plumbers' repairs, South Hall—J. M. McNamara Plumbers' repairs, North Hall—J. M. McNamara Plumbers' repairs, North Hall—J. M. McNamara Two Dart stoves—M. De La Montanya Six joints stove-pipe—M. De La Montanya Two alboyrs—M. De La Montanya	3
Plumbers' renairs South Hall-I M McNamara	ğ
Dismond repairs, South Lant-y, M. Bigliania.	
rumbers repairs, North Tan — J. M. McNamara	4
Two part stoves—M. De La Montanya	13
Six joints stove-pipe—M. De La Montanya	1
Two elbows—M. De La Montanya	
Two dampers—M. De La Montanya.	
Two dampers—Mr. De ha Mulianya	
Two collars—M. De La Montanya	
One sheet zinc—M. De La Montanya	1
Two safety wall tubes—M. De La Montanya  Labor setting up—M. De La Montanya	3
Labor setting up—M De La Montanya	5
Tinning Tiberes building T M Monor	
Tuning morary bunding-1. M. Mchamara	25
Tinning Library building—J. M. McNamara Two Oakland directories—Dutton & Partridge	10
One antique desk—George H. Fuller	30
Filing four saws—A. Erlandsen	ĭ
One set Yale casters—A. Erlandsen	÷
One Set 1 are Gasters—A. Erranusen	
One terra-cotta thimble—Savage Bros.	<b></b> .
Labor for month of January	54

Eight hundred cubic feet gas—Oakland Gas Co. Eighteen joints stove-pipe—J. M. McNamara Two elbows—J. M. McNamara Labor setting up stove, North Hall—J. M. McNamara Repairing water-closet, North Hall—J. M. McNamara One pi	\$2 00
Eighteen joints stove-pipe—J. M. McNamara	6 60
Two elbows—J. M. McNamara	70
Labor setting up stove, North Hall—J. M. McNamara	3 50
Repairing water-closet, North Hall—J. M. McNamara One piece gutter—Niehaus Bros. & Co. Two basin faucets, and labor—J. M. McNamara Fitting key—A. Erlandsen Collar for stove-pipe—J. J. Menges Damper for stove-pipe—J. J. Menges Fitting same—J. J. Menges One and one half yards green drill—W. & J. Sloane & Co. Two papers tacks—A. Erlandsen Two key blanks—A. Erlandsen Repairing spring—A. Erlandsen Repairing shower bath—J. M. McNamara Labor for month of February—John Davis	4 25
One piece gutter—Niehaus Bros. & Co.	1 60
Two basin faucets, and labor—J. M. McNamara	4 00
Fitting key—A. Erlandsen	25
Collar for stove-pipe—J. J. Menges	25-
Damper for stove-pipe—J. J. Menges	25
Fitting same—J. J. Menges	50
One and one half yards green drill—W. & J. Sloane & Co.	75-
Two papers tacks—A. Erlandsen	10-
Two key blanks—A. Erlandsen	20
Repairing spring—A. Erlandsen	25
Repairing shower bath—J. M. McNamara	1 50
Labor for month of February—John Davis	51 00
Three thousand two hundred cubic feet gas—Oakland Gas Co.	8 00⋅
Labor for month of February—John Davis  Three thousand two hundred cubic feet gas—Oakland Gas Co.  Labor for month of March—John Davis	<b>52 00</b>
One Cottage Home stove—M. De La Montanya One joint Russia iron pipe—M. De La Montanya One Russia iron fireboard—M. De La Montanya	9 00
One joint Russia iron pipe—M. De La Montanya	75
One Russia iron fireboard—M. De La Montanya	1 50
One damper—M. De La Montanya	25
One oxidized W. L. board—M. De La Montanya	2 50
One damper—M. De La Montanya. One oxidized W. L. board—M. De La Montanya. Labor and cartage on same—M. De La Montanya.	3 00
Labor and cartage on same—M. De La Montanya Three dozen stools—Indianapolis Furniture Co. Six kitchen tables—E. Hook One gallon alcohol—E. G. Buswell & Co. Two pounds shellac—E. G. Buswell & Co. One hundred and twelve feet white cedar—Niehaus Bros. & Co. One thousand feet lattice—Niehaus Bros. & Co. One gallon linseed oil—H. Richards Two wood clamps—A. Erlandsen Two chest locks—A. Erlandsen One gas lighter—A. Erlandsen	27 00
Six kitchen tables—E. Hook	12 00
One gallon alcohol—E. G. Buswell & Co.	3 00
Two pounds shellac—E. G. Buswell & Co.	1 00-
One hundred and twelve feet white cedar—Niehaus Bros. & Co.	16 00
One thousand feet lattice—Niehaus Bros. & Co.	10 00
One gallon linseed oil—H. Richards	80
Two wood clamps—A. Erlandsen	1 10
Two chest locks—A. Erlandsen	50
One gas lighter—A. Erlandsen	75-
One box tapers—A. Erlandsen	25
Two chest locks—A. Erlandsen One gas lighter—A. Erlandsen One box tapers—A. Erlandsen Three yards oilcloth—Max. Greenhood & Co. Pipe and labor for nine brackets—J. M. McNamara Repairing water-closet in Gymnasium—J. M. McNamara One 1½-inch globe valve—J. M. McNamara Repairing faucets and fittings—J. M. McNamara Six joints stove-pipe—J. M. McNamara One elbow—J. M. McNamara Repairing closet—J. M. McNamara One light pendant—J. M. McNamara One light pendant—J. M. McNamara Labor for month of April Two thousand two hundred cubic feet gas—Oakland Gas Co. Repairing leader in North Hall—J. M. McNamara Repairing leader in North Hall—J. M. McNamara Repairing shower in Gymnasium—J. M. McNamara Repairing shower in Gymnasium—J. M. McNamara One thousand cubic feet gas—Oakland Gas Co. Repairing door check—F. D. Morrill Fifteen sacks sawdust—George C. Pape Twenty-two and one half square feet wire cloth—Savage Bros. Forty-eight pounds \$-inch rope—J. McClain One Yale padlock—A. Erlandsen Six pounds paint—J. M. McNamara. Solder and coal—J. M. McNamara.	1 20
Pipe and labor for nine brackets—J. M. McNamara	•16 00
Repairing water-closet in Gymnasium—J. M. McNamara	5 00
One 11-inch globe valve—J. M. McNamara	1 50
Repairing faucets and fittings—J. M. McNamara	6 00
Six joints stove-pipe—J. M. McNamara	1 80
One elbow—J. M. McNamara	30
Repairing closet—J. M. McNamara	1 50
One light pendant—J. M. McNamara	2 00
Labor for month of April	51 00
Two thousand two hundred cubic feet gas—Oakland Gas Co.	5 50
Repairing water-closet in South Hall—J. M. McNamara	2 10
Repairing leader in North Hall—J. M. McNamara	3 00
Repairing roof of Observatory—J. M. McNamara	1 50
Repairing shower in Gymnasium—J. M. McNamara	1 00
One thousand cubic feet gas—Oakland Gas Co.	2 50
Repairing door check—F. D. Morrin	2 75
Fitteen sacks sawdust—George C. Pape	3 75
Twenty-two and one han square let will cloth—Savage Bros.	1 80
Forty-eight pounds g-inch rope—J. McClain	7 68
One I are padrock—A. Errandsen	1 25
Six pounds paint—J. M. McNamara	60
Solder and coal—J. M. McNamara.  One half day's labor of two men—J. M. McNamara	50
One nair days labor of two men—J. M. McNamara.	3 00
One pair brass hinges and screws—A. Erlandsen One brass hook and eye—A. Erlandsen Two brass rods—A. Erlandsen.	10 05
One prass node A Filandsen	.5 .5
Three gross screw hooks—A. Erlandsen	1 65
One neith bridge binger and servery A. Friendson	
One pair brass hinges and screws—A. Erlandsen One brass lock and two keys—A. Erlandsen	25 50
One hinge, hasp, and bolts—A. Erlandsen	20
One padlock and two keys—A. Erlandsen	1 00
Repairing roof to North Hall—J. M. McNamara	2 00
Bill of J. M. McNamara for repairing Gymnasium: Forty-five pounds 14-inch	2 00
land nine one sewer tren three nounds solder two hose hike fue inches	
water nine nine fittings one day's labor of two men	13 00
lead pipe, one sewer trap, three pounds solder, two hose bibs, five inches water pipe, nine fittings, one day's labor of two men.  Repairs in North Hall—J. M. McNamara	5 50
New hottom in Gymnasium tank—I. M. McNamara	12 00
New bottom in Gymnasium tank—J. M. McNamara Fitting three keys—A. Erlandsen	75.
·	

Maria   Managara   M	Three joints 5-inch stove-pipe, one elbow, one collar, and labor—J. M. McNa-mara	<b>\$</b> 1 2	
Come and three fourths reams paper—Blake, Mofflitt & Towne	One chair casting—G. H. Fuller Desk Co.	1 0	
One and three fourths reams paper—Blake, Moffitt & Towne			_
One and three fourths reams paper—Blake, Mofflit & Towne	The Their water Delivation Office	. \$6,730 2	9
Expressage, month of June—Pâtterson & Co.	10 University Printing Office.		_
Paper-Tatum & Bowen	One and three fourths reams paper—Blake, Moffitt & Towne	\$12 0	
Paper-Blake, Moffitt & Towne	Expressage, month of June—Patterson & Co	15	
Paper-Blake, Moffitt & Towne	Grinding knife—Tatum & Bowen	12	
Type=Tatum & Bowen	Paper—Blake, Moffitt & Towne	35 3	
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	Type—Tatum & Bowen	2 0	
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	Type—Tatum & Bowen	20 0	
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	Two lve brushes—E. J. Shattuck & Co.	7	
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	Two benzine brushes—E. J. Shattuck & Co.	6	30
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	One pound blue black—E. J. Shattuck & Co.	20	
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	Three half-medium rollers—E. J. Shattuck & Co.	20	
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	Three quarter-medium rollers—E. J. Shattuck & Co.	2 2	
One hundred sheets Bristol board—Blake, Mofflitt & Towne         6 00           One ream Japanese folio—Blake, Mofflitt & Towne         5 00           Che ream Whiting folio—Blake, Mofflitt & Towne         5 00           Expressage—Patterson & Co.         1 00           One ream 24x38 paper—Blake, Mofflitt & Towne         8 00           Two reams folio paper—Blake, Mofflitt & Towne         6 00           Town ceams folio paper—Blake, Mofflitt & Towne         6 00           Four quires paper—Blake, Mofflitt & Towne         76           Grinding Mife—Tatum & Bowen         1 25           Grinding Mife—Tatum & Bowen         2 75           Five and one half pounds 10-point sorts—Tatum & Bowen         2 75           Two pounds 8-point sorts—Tatum & Bowen         1 12           Three pounds 12-point sorts—Tatum & Bowen         1 13           Two pounds 8-point sorts—Tatum & Bowen         1 38           Two pounds 8-point sorts—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen         1 36           Twenty-four feet rule—Tatum & Bowen	Three eighth-medium rollers—E. J. Shattuck & Co.	1 5	
Darpersage	One hundred shoots Bristol board Plake Moffitt & Towns	10	
Darpersage	One ream Japanese folio—Blake. Moffitt & Towne	67	
Darpersage	One ream Whiting folio—Blake, Moffitt & Towne	50	
Five and one half pounds 10-point sorts—Tatum & Bowen	Expressage—Patterson & Co.	1 0	
Five and one half pounds 10-point sorts—Tatum & Bowen	Two reams folio naner—Blake, Moffitt & Towns	10.0	
Five and one half pounds 10-point sorts—Tatum & Bowen	One hundred sheets Bristol board—Blake, Moffitt & Towne.	60	
Five and one half pounds 10-point sorts—Tatum & Bowen	Four quires paper—Blake, Moffitt & Towne.	7	5
Five and one half pounds 10-point sorts—Tatum & Bowen	Grinding knife—Tatum & Bowen	1 2	
Two pounds 8-point sorts—Tatum & Bowen	Five and one half nounds 10 noint sorts—Tetum & Rowen	97	
Two pounds 6-point sorts—Tatum & Bowen       1 36         Twenty-four feet rule—Tatum & Bowen       2 40         One 8-inch R. K. stick—Tatum & Bowen       1 35         One 6-inch R. K. stick—Tatum & Bowen       1 25         Expressage—Patterson & Co.       1 25         Expressage—Patterson & Co.       50         Bill of Tatum & Bowen for printers' materials:       50         One font 8-point apollo       3 25         One font 10-point apollo       3 25         One font 8-point romanesque       2 25         One font 12-point romanesque       2 50         One font 12-point romanesque       3 50         One font 12-point romanesque       3 50         One font 12-point old style extended       3 65         One font 12-point old style extended       3 65         One font 12-point gle extended       3 65         One font 10-point gothic condensed, No. 4       3 30         One font 12-point gothic condensed, No. 4       3 65         One font 13-point graphic text       3 65         One font 36-point graphic text       3 65         One font 37-point graphic text       3 65         One font 38-point graphic text       3 65         One font 38-point graphic text       3 65         One font 38-point g	Two pounds 8-point sorts—Tatum & Bowen	ĩ i	
Two pounds 6-point sorts—Tatum & Bowen       1 36         Twenty-four feet rule—Tatum & Bowen       2 40         One 8-inch R. K. stick—Tatum & Bowen       1 35         One 6-inch R. K. stick—Tatum & Bowen       1 25         Expressage—Patterson & Co.       1 25         Expressage—Patterson & Co.       50         Bill of Tatum & Bowen for printers' materials:       50         One font 8-point apollo       3 25         One font 10-point apollo       3 25         One font 8-point romanesque       2 25         One font 12-point romanesque       2 50         One font 12-point romanesque       3 50         One font 12-point romanesque       3 50         One font 12-point old style extended       3 65         One font 12-point old style extended       3 65         One font 12-point gle extended       3 65         One font 10-point gothic condensed, No. 4       3 30         One font 12-point gothic condensed, No. 4       3 65         One font 13-point graphic text       3 65         One font 36-point graphic text       3 65         One font 37-point graphic text       3 65         One font 38-point graphic text       3 65         One font 38-point graphic text       3 65         One font 38-point g	Three pounds 12-point sorts—Tatum & Bowen	1 3	
Description	Two pounds 6-point sorts—Tatum & Bowen	13	
Description	Twenty-four feet rule—Tatum & Bowen	2 4	ŏ
Description	One 8-inch R. K. stick—Tatum & Bowen	1 3	5
One font 8-point apollo         3 00           One font 10-point romanesque         2 25           One font 8-point romanesque         2 00           One font 10-point romanesque         2 50           One font 12-point romanesque         3 00           One font 18-point romanesque         3 50           One font 18-point romanesque         4 00           One font 30-point romanesque         5 10           One font 12-point old style extended         3 65           One font 12-point elzevir italics, lower case         2 00           One font 10-point gothic condensed, No. 4         3 30           One font 10-point gothic condensed, No. 4         3 65           One font 18-point graphic text         3 65           One font 18-point graphic text         3 65           One font 36-point graphic text         3 65           One font 36-point graphic text         3 96           One font 36-point graphic text         3 95           Twenty-four feet rule, 304         2 40           Twenty pounds 2-point leads         3 20           Recoating six medium rollers—E. J. Shattuck & Co.         30           One pound varnish—E. J. Shattuck & Co.         30           One pound varnish—E. J. Shattuck & Co.         30           One ream S. & S. C. pa	One o-inch R. R. stick—Tatum & Bowen	1 2	
One font 8-point apollo         3 00           One font 10-point romanesque         2 25           One font 8-point romanesque         2 00           One font 10-point romanesque         2 50           One font 12-point romanesque         3 00           One font 18-point romanesque         3 50           One font 18-point romanesque         4 00           One font 30-point romanesque         5 10           One font 12-point old style extended         3 65           One font 12-point elzevir italics, lower case         2 00           One font 10-point gothic condensed, No. 4         3 30           One font 10-point gothic condensed, No. 4         3 65           One font 18-point graphic text         3 65           One font 18-point graphic text         3 65           One font 36-point graphic text         3 65           One font 36-point graphic text         3 96           One font 36-point graphic text         3 95           Twenty-four feet rule, 304         2 40           Twenty pounds 2-point leads         3 20           Recoating six medium rollers—E. J. Shattuck & Co.         30           One pound varnish—E. J. Shattuck & Co.         30           One pound varnish—E. J. Shattuck & Co.         30           One ream S. & S. C. pa	Expressage—Patterson & Co.	1 2	
One font 8-point apollo         3 00           One font 10-point romanesque         2 25           One font 8-point romanesque         2 00           One font 10-point romanesque         2 50           One font 12-point romanesque         3 00           One font 18-point romanesque         3 50           One font 18-point romanesque         4 00           One font 30-point romanesque         5 10           One font 12-point old style extended         3 65           One font 12-point elzevir italics, lower case         2 00           One font 10-point gothic condensed, No. 4         3 30           One font 10-point gothic condensed, No. 4         3 65           One font 18-point graphic text         3 65           One font 18-point graphic text         3 65           One font 36-point graphic text         3 65           One font 36-point graphic text         3 96           One font 36-point graphic text         3 95           Twenty-four feet rule, 304         2 40           Twenty pounds 2-point leads         3 20           Recoating six medium rollers—E. J. Shattuck & Co.         30           One pound varnish—E. J. Shattuck & Co.         30           One pound varnish—E. J. Shattuck & Co.         30           One ream S. & S. C. pa	Bill of Tatum & Bowen for printers' materials:	•	٠
One font 6-point romanesque       2 25         One font 10-point romanesque       2 50         One font 12-point romanesque       3 00         One font 18-point romanesque       3 50         One font 24-point romanesque       4 00         One font 30-point romanesque       5 10         One font 12-point old style extended       3 65         One font 10-point getzevir italics, lower case       2 00         One font 10-point getzevir italics, lower case       2 95         One font 10-point getzevir italics, lower case       2 95         One font 10-point getzevir italics, lower case       2 95         One font 10-point getzevir italics, lower case       2 95         One font 10-point getzevir italics, lower case       2 95         One font 10-point getzevir italics, lower case       2 95         One font 10-point getzevir italics, lower case       3 80         One font 12-point getzevir italics, lower case       3 80         One font 12-point getzevir italics, lower case       3 80         One font 12-point getzevir italics, lower case       3 80         One font 12-point getzevir italics, lower case       3 80         One font 12-point getzevir italics, lower case       3 86         One font 12-point getzevir lower getzevir getzevir getzevir getzevir getzevir getzevir getzevir getzevir getzevir	One font 8-point apollo		
One font 8-point romanesque.       2 00         One font 10-point romanesque.       3 00         One font 12-point romanesque.       3 50         One font 24-point romanesque.       4 00         One font 30-point romanesque.       5 10         One font 12-point old style extended.       3 65         One font 12-point elzevir italics, lower case.       2 00         One font 10-point old style extended.       2 95         One font 10-point gothic condensed, No. 4.       3 30         One font 12-point gothic condensed, No. 4.       3 65         One font 12-point graphic text.       3 65         One font 36-point graphic text.       3 95         One font 36-point graphic text.       3 50         Twenty-four feet rule, 304       2 40         Twenty pounds 2-point leads.       3 50         Recoating six medium rollers—E. J. Shattuck & Co.       30         One gallon benzine—E. J. Shattuck & Co.       30         One pound varnish—E. J. Shattuck & Co.       30         One Webster's Dictionary—The Bancroft Co.       12 00         One ream S. & S. C. paper—Blake, Moffitt & Towne.       8 00         Two hundred and twenty-six sheets marble board—Blake, Moffitt & Towne.       6 72         One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne. <td< td=""><td>One font 6-point romanesque</td><td></td><td></td></td<>	One font 6-point romanesque		
One font 12-point romanesque       3 00         One font 24-point romanesque       4 00         One font 30-point romanesque       5 10         One font 12-point old style extended       3 65         One font 12-point elzevir italics, lower case       2 00         One font 10-point gothic condensed, No. 4       3 85         One font 10-point gothic condensed, No. 4       3 86         One font 12-point graphic text       3 65         One font 18-point graphic text       3 65         One font 24-point graphic text       3 96         One font 36-point graphic text       3 95         One font 36-point graphic text       3 95         Twenty-four feet rule, 304       2 40         Twenty pounds 2-point leads       3 20         Recoating six medium rollers—E. J. Shattuck & Co.       4 50         One gallon benzine—E. J. Shattuck & Co.       30         One pound varnish—E. J. Shattuck & Co.       30         One Powerser's Dictionary—The Bancroft Co.       30         One ream S. & S. C. paper—Blake, Moffitt & Towne       8 00         Two hundred and twenty-six sheets marble board—Blake, Moffitt & Towne       6 72         One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne       15 50	One font 8-point romanesque 2 00	ı	
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One font 24-point romanesque       4 00         One font 30-point romanesque       5 10         One font 12-point old style extended       3 65         One font 12-point elzevir italics, lower case       2 00         One font 10-point old style extended, caps and small caps       2 95         One font 10-point gothic condensed, No. 4       3 30         One font 12-point graphic condensed, No. 4       3 65         One font 18-point graphic text       3 65         One font 36-point graphic text       3 95         One font 36-point graphic text       4 55         Thirty-five fancy dashes       3 50         Twenty-four feet rule, 304       2 40         Twenty pounds 2-point leads       3 20         Recoating six medium rollers—E. J. Shattuck & Co.       30         One gallon benzine—E. J. Shattuck & Co.       30         One pound varnish—E. J. Shattuck & Co.       30         One Webster's Dictionary—The Bancroft Co.       20         One ream S. & S. C. paper—Blake, Moffitt & Towne       8 00         Two hundred and twenty-six sheets marble board—Blake, Moffitt & Towne       6 72         One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne       15 50	One font 18-point romanesque 3 50		
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Twenty-four feet rule, 304       2 40         Twenty pounds 2-point leads       3 20         Recoating six medium rollers—E. J. Shattuck & Co.       4 50         One gallon benzine—E. J. Shattuck & Co.       30         One pound varnish—E. J. Shattuck & Co.       40         Expressage—Patterson & Co.       50         One Webster's Dictionary—The Bancroft Co.       12 00         One ream S. & S. C. paper—Blake, Moffitt & Towne       8 00         Two hundred and twenty-six sheets marble board—Blake, Moffitt & Towne       3 56         One ream Japanese folio—Blake, Moffitt & Towne       6 72         One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne       15 50	One font 36-point graphic text 4 55		
Comparison	Thirty-five fancy dashes 3 50		
Comparison	Twenty nounds 2-point leads 2 90		
One gallon benzine—E. J. Shattuck & Co.         30           One I-gallon can—E. J. Shattuck & Co.         30           One pound varnish—E. J. Shattuck & Co.         40           Expressage—Patterson & Co.         50           One Webster's Dictionary—The Bancroft Co.         12 00           One ream S. & S. C. paper—Blake, Moffitt & Towne.         8 00           Two hundred and twenty-six sheets marble board—Blake, Moffitt & Towne.         13 56           One ream Japanese folio—Blake, Moffitt & Towne.         6 72           One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne.         15 50			5
One I-gallon can—E. J. Shattuck & Co.       30         One pound varnish—E. J. Shattuck & Co.       40         Expressage—Patterson & Co.       50         One Webster's Dictionary—The Bancroft Co.       12 00         One ream S. & S. C. paper—Blake, Moffitt & Towne.       8 00         Two hundred and twenty-six sheets marble board—Blake, Moffitt & Towne.       13 56         One ream Japanese folio—Blake, Moffitt & Towne.       6 72         One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne.       15 50	Recoating six medium rollers—E. J. Shattuck & Co.	4 5	0
One pound varnish—E. J. Shattuck & Co.       40         Expressage—Patterson & Co.       50         One Webster's Dictionary—The Bancroft Co.       12         One ream S. & S. C. paper—Blake, Moffitt & Towne.       8         Two hundred and twenty-six sheets marble board—Blake, Moffitt & Towne.       13         One ream Japanese folio—Blake, Moffitt & Towne       6         One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne       15	One Leadlon can F. I. Shattuck & Co.		
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One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne	One Webster's Dictionary—The Bancroft Co.	12 0	
One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne	Two hundred and twenty-six sheets marble heard—Rlake Moffitt & Towns	8 0 12 5	U Se
One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne 15 50	One ream Japanese folio—Blake. Moffitt & Towne	67	
1914	One hundred and forty sheets cream laid paper—Blake, Moffitt & Towne	15 5	
	1914		

Three thousand envelopes—Blake, Moffitt & Towne	\$5 76				
Two reams Japanese folio, cut—Blake, Moffit & Towne	12 54				
One warm Whiting folio and Plake Moffitt & Towns	13 54				
One ream Whiting folio, cut—Blake, Moffitt & Towne	5 00				
Turnety four foot wile Teture & Power	75 2 88				
Disconnected in the Tatum & Dowell	1 50				
Expressage—Patterson & Co. Twenty-four feet rule—Tatum & Bowen Five pounds quotations—Tatum & Bowen					
Four pounds 10-point 2 and 3-em quads—Tatum & Bowen Four pounds 12-point 2 and 3-em quads—Tatum & Bowen	2 00				
Four pounds 12-point 2 and 3-em quads—Tatum & Bowen	184				
Two pounds 6-point 3-em quads—Tatum & Bowen	1 36				
Two pounds 6-point 3-em quads—Tatum & Bowen	1 12				
Two pounds 6-point 3-em leaders—Tatum & Bowen	1 36				
One font 10-point elzevir italic—Tatum & Bowen	3 80				
One font 8-noint superior figuresTatum & Bowen	1 50				
One font 8-point superior figures—Tatum & Bowen One font 10-point superior figures—Tatum & Bowen	1 55				
One font 10-point superior figures—Tatum & Bowen	1 00				
One font 12-point superior figures—Tatum & Bowen	1 65				
One font 6-point algebraic signs—Tatum & Bowen One font 8-point algebraic signs—Tatum & Bowen One font 10-point algebraic signs—Tatum & Bowen One font 6-point algebraic signs—Tatum & Bowen	2 40				
One font 8-point algebraic signs—Tatum & Bowen	1 80				
One font 10-point algebraic signs—Tatum & Bowen	1 50				
One font 6-point latin antique—Tatum & Bowen One font 8-point latin antique—Tatum & Bowen One font 10-point latin antique—Tatum & Bowen	2 90				
One font 8-point latin antique—Tatum & Bowen	2 95				
One font 10-point latin antique—Tatum & Bowen	2 95				
One font 12-point latin antique—Tatum & Bowen	2 95				
One neit netent news coses. Tetum & Rowen	2 00				
One pair patent news cases—Tatum & Bowen Salaries for the year ending June 30, 1891.					
Salaries for the year ending June 30, 1891	720 00				
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	\$1,063 65				
To Advertising and Printing.					
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Advertising entrance examinations—San Francisco "Chronicle".	<b>\$</b> 9 80				
Advertising entrance examinations—San Francisco "Call"	8 00				
Advertising entrance examinations—San Francisco "Bulletin"	11 00				
Advertising entrance examinations—Los Angeles "Times-Mirror"	3 30				
Advertising entrance examinations—San Francisco "Chronicle".  Advertising entrance examinations—San Francisco "Call".  Advertising entrance examinations—San Francisco "Bulletin".  Advertising entrance examinations—Los Angeles "Times-Mirror".  Advertising entrance examinations—Los Angeles "Herald".  Advertising entrance examinations—San Francisco "Alta California".  Advertising entrance examinations—Oselband "Enouirer"	5 00				
Advertising entrance examinations—San Francisco "Alta California"	7 00				
Advertising entrance evaminations—Oakland "Fnourer"	4 00				
Advertising entrance examinations—Can Evensian Industri	2 00				
Advertising entrance examinations—San Francisco Evening Fost	6 00				
Advertising entrance examinations—Los Angeles "Express"	4 75				
Advertising entrance examinations—San Francisco "Report"	7 00				
	1 11				
Advertising entrance examinations—Oakland "Tribune"	3 60				
Printing 100 circulars—The Louis Roesch Co.	3 60 3 75				
Advertising entrance examinations—Oakland "Enquirer"  Advertising entrance examinations—San Francisco "Evening Post"  Advertising entrance examinations—Los Angeles "Express"  Advertising entrance examinations—San Francisco "Report"  Advertising entrance examinations—Oakland "Tribune"  Printing 100 circulars—The Louis Roesch Co.  Advertising entrance examinations—H. S. Spaulding	3 60 3 75 4 00				
Advertising entrance examinations—Oakland "Tribune"  Printing 100 circulars—The Louis Roesch Co.  Advertising entrance examinations—H. S. Spaulding.  Advertising entrance examinations—Chico "Chronicle"	Ŧ 00				
Advertising entrance examinations—Oakland "Tribune" Printing 100 circulars—The Louis Roesch Co.  Advertising entrance examinations—H. S. Spaulding.  Advertising entrance examinations—Chico "Chronicle"  Advertising entrance examinations—Chico "Enterprise"	2 50				
Advertising entrance examinations—Oakland "Tribune" Printing 100 circulars—The Louis Roesch Co. Advertising entrance examinations—H. S. Spaulding. Advertising entrance examinations—Chico "Chronicle" Advertising entrance examinations—Chico "Enterprise". Printing entrance examination ougstions—Bosque Engraving Co.	2 50 3 00				
Advertising entrance examinations—Chico "Chronicle"  Advertising entrance examinations—Chico "Enterprise"  Printing entrance examination questions—Bosque Engraving Co.	2 50 3 00 78 50				
Advertising entrance examinations—Chico "Chronicle"  Advertising entrance examinations—Chico "Enterprise"  Printing entrance examination questions—Bosque Engraving Co.	2 50 3 00 78 50 4 00				
Advertising entrance examinations—Chico "Chronicle"  Advertising entrance examinations—Chico "Enterprise"  Printing entrance examination questions—Bosque Engraving Co.  Advertising entrance examinations—Grass Valley "Union"  Notice special meeting of Regents—San Francisco "Call"	2 50 3 00 78 50 4 00 1 00				
Advertising entrance examinations—Chico "Chronicle"  Advertising entrance examinations—Chico "Enterprise"  Printing entrance examination questions—Bosque Engraving Co.  Advertising entrance examinations—Grass Valley "Union"  Notice special meèting of Regents—San Francisco "Call"  Five hundred demands on Controller—Dutton & Partridge	2 50 3 00 78 50 4 00 1 00 5 50				
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Advertising entrance examinations—Chico "Chronicle" Advertising entrance examinations—Chico "Enterprise" Printing entrance examination questions—Bosque Engraving Co. Advertising entrance examinations—Grass Valley "Union" Notice special meeting of Regents—San Francisco "Call" Five hundred demands on Controller—Dutton & Partridge Fifty copies payroll—C. A. Murdock & Co. Five hundred receipts printed—Dutton & Partridge	2 50 3 00 78 50 4 00 1 00 5 50 11 00 2 50				
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Postage stamps—N. B. Byrne Five hundred postal cards—N. B. Byrne Twenty-five 1-cent wrappers—N. B. Byrne		00 00 25
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Clerical work—W. C. Allen Rent of Regents' room, August and September—G. Lambert, Agent Janitor for Regents' room, August and September—G. Lambert. Agent	12 60 8	00
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Traveling expenses of Secretary	\$61 25
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## RECAPITULATION.

## Receipts.

By cash on Controller's warrants				
Disbursements.				
To Department of Lick Observatory.  To Department of Mineralogy.  To Department of Botany.  To Department of Biology  To Department of Physics  To Department of Physics  To Department of Physical Culture.  To Museum  To Library.  To College of Chemistry.  To University Site Improvements.  To fuel.  To equipment and repairs  To University Printing Office  To advertising and printing.  To telegraphing and expressage.  To stationery.  To postage.  To incidental expenses.  To official and lecturing expenses.  To water supply.  To insurance.  To amount reserved for permanent improvements.	427 267 1,667 12,273 3,985 2,186 5,702 17,557 18,377 820 6,730 1,063 276 447 147 564 955 401 1,113 2,245 498	61 35 80 12 51 00 98 63 31 32 35 29 65 20 48 78 25 50 60 60 60 60 60 60 60 60 60 6		
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